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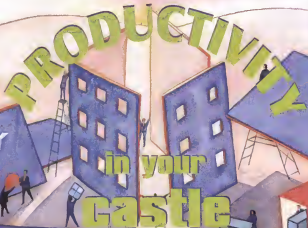
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Adventures in home office land



David Tardiff
The iReport

Our home office tends to assemble a lot of bits and pieces, although not exactly by design. My wife is running her consulting business from there, so that status computer system stability and reliability always outrank size and style—and especially expense.

Still, she has the delicious privilege of being married to a guy who is constantly trying out new digital stuff, so she's always one step ahead when innovation hits and flows ("Hey, it's my job," I argue).

Successful implementations

In for the most stable computer in the network, I interconnected the two PCs and the iMac as a basic fire-proof Internet hub. But there are also a couple of extras. First, the long-range high-speed Internet modem is plugged into an ISL data Internet sharing device, which is now a plugged into the hub.

This allows my computer to access the Internet at any time.

The second variation is the addition of an iMac wireless Internet (Wi-Fi) hub station, which is also plugged into the hub. To do this, my second port wiring in the telephone in the 6822a device.

The wireless hub station allows me to use my notebook computer (equipped with an 802.11 PC Card) anywhere in the house, while offloading on the LAN and sharing high-speed Internet access. This setup enabled me, for the past 18 months, and a temporary—on a network disclaimer. But I'd like to explore a solution that would be much simpler.

Several manufacturers now offer the three separate functions—hub, Internet sharing device and wireless base station—in a single device. We'll be highlighting three in our Come Monday cover story next month.

More trouble explained

After being stumped at the high ask on everything of an edge-based multifunction device we bought (we worked it out to around \$1,200 a page), we returned it and purchased a Xerox WorkCentre 590. This base-based unit was more expensive but made sense, since we already had an ePrint printer and our venerable Xerox PixCard LaserJet 32 recently hit the dust after a decade of service. The WorkCentre was also a TCP/IP-enabled device, so we had high expectations.

For the most part, this has been a trouble-free product, but not without some hiccups. First, since we were using Windows 2000 on the main computer, we needed to download new drivers to get it to work. However, the printer is very fast and produces excellent print; but sometimes will grab some data from the disk and then the disk is not.

We danced in some small coming from the printer, especially during a large print job. It's explained in a Xerox representative who could offer sympathy but no solution (it's an inherent part of the laser imaging process) and I eventually ended up with a small, but noticeable, black smudge from the multifunction peripheral (MFP) when we print to a nearby window.

The small issue isn't unique to the Xerox printer. TCP Associates Sales, Inc. Toronto also noted a strong smell coming from a laser-based Brother MFP he took home to test. The smell is if you need to use a laser-based printer in a small room, plus for ventilation.

The defect is a recent call—being a review and from Apple Canada—a temporary solution. Connecting the iMac's built-in Ethernet port to the hub with a short cable was all that was needed to get the best Internet access, but it still needed to be set up the correct protocols to allow the Mac to join the network. The iMac will now work with the network device, however, since the iMac is a perfect unit and the MFP does not have Apple drivers.

Moving the main computer from Windows 98 to Windows 2000 last fall was done with some trepidation, but it went smoothly. We made sure we had found updated drivers for all our devices before we proceeded, so that way has helped the transition.

When technology dies

Last year when we went to replace the built-in one-year old scanner, we were told a would cost seven or \$1,000 because the hub was integrated with the scanning head and as the complete unit would have to be replaced, and moreover, the part would have to be ordered from Japan. We went for a \$29 USB scanner instead. It works well, but we still shut down over the \$1,000 scanner that has become a dead step.

The LaserJet 32 is a different story. In 10 years of operation, it was a workhorse. It doesn't even use a thing. We feel the same about a five-year old scanner that is getting better.

What do you do when the main computer fails out? This is the current situation in our home network. So far, I have replaced the 6822a

and adapted various peripherals, reconfigured the RAM and CPU with components that are known to be good, reinstalled the operating system and the applications, and downloaded all of the website patches. Applications on my critical, however. The next step? Replace the motherboard. If that doesn't work? Go shopping for a new computer.

Are we leaving too fast?

After working with a periodically evil piece of equipment, Lab Test Editor Tom Carverlin will come to one decision: some variation of "I thought technology was supposed to enhance our lives!" Indeed?

I'd agree that I am a true believer in the power of PCs and digital technology to enhance our productivity, but I've also seen that other light—the road to destruction is paved with broken promises of computer ability.

Times ahead, connecting and otherwise, David Tardiff
Editor



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Wireless Internet and an easier way
I wish to ask for more information on the wireless setup referred to in the March "Letter from the editor." Having my wife's parents, for example, where there is no Internet, into their home, would a wireless router allow me to get on the list?

Jim Blackbird
TCP replies: When the velocity speaks of "wireless" it can refer to one of three kinds of connectivity.

1. **Wireless with true access:** This would offer the wireless you hoped for. With the current wireless devices (probably a modem), you would be able to connect your portable computer to the

Internet at will. Significantly, the piece for this kind of wireless Internet access are not fully developed—some though parts of it have been around for at least a decade and recent advances have occurred. For example, at the end of February, Rogers ISP announced its Portage service, which will allow you to use a cell phone to connect your computer or handheld appliance to the Internet anywhere within the company's digital cellular coverage area. Of course, you still need to have an Internet service provider (ISP), and the service is pretty slow, about 10Kbps.

2. **Wireless local area networks:** This is actually what was referred to in the editorial. The setup is based

on a wireless standard called IEEE 802.11b, which consists of a wireless base station that plugs into an existing network, and a wireless card that fits into the notebook's PC Card slot. You can be indirect "to the net" instead. PC card and a direct link from wireless card to Internet. It's a two-stage process of wireless card to LAN to Internet.

3. **Wireless personal area network:** This may have come across the line. Bluetooth, and this is where it fits into the wireless picture. It is often called a cable replacement, and in its own right is a wireless radio between your computer and another device properly said. Very few products available at this point, maybe the market will flow up in the fall.

And this issue of traveling to other locations and getting Internet access is a relatively easy one to take without worrying to a wireless solution. Some notebook ISPs offer the ability for you to dial into your account in a different city using a local number (so if you subscribe to such a service provider, and you have a local dial-in number in your "home" country, you could dial in locally and your access to the Internet using your existing number is uninterrupted).

Where are we when we have Internet?
In 1. I read The Computer Paper (October 1998) (Pittman Area) and noticed the Java tutorial on accessing to internet, recent issues. The December

2000 issue is the last time the Internet for Java (Pittman Area).

Am I relating something or is this the year's material? Will you have that 1.3 in 1000 issue to make up for it? I found these very interesting and would like to read the last three parts.

Kevin Blackbird

TCP replies: This is one of the unfortunate aspects of creating a national publication: the size of what comes from readers to editors—not all of the editorial content we prepare from month to month appears in every regional edition.

However, the Internet has provided us with a solution. If you go to our Web site, www.computerpaper.com, you will find an archive of each month's issue in its entirety. We generally post this within a week of the paper going to the printer.

The Java tutorial is one of three—and expanded into a single section. If you see "Java tutorial" in the archive archive section under the top right corner of your Web browser you will be taken directly there.

Well, I guess we've been told...

Regarding the Mac issue mentioned in the last issue: I am a professional, multiplatform developer writing with such platforms for many years. I agree with Robert (the letter writer complaining about TCP's coverage of all the Macintosh-related of the Internet) and have been disappointed by the actual information this paper has been guilty of in its coverage, a few months ago I read a headline like "The Internet platform on the planet" and the Macintosh PowerBook wasn't even mentioned!

Myself and the many design professionals using these multiplatforms to make their money know how much faster and more stable Macintosh is for design, photo, and audio work. The PowerBooks resemble nearly top-tier, the apparent ignorance of your publication to the nature of the design industry.

If you plan to write in us, the professional graphic designers and artists, at least Apple the word in. Figure out what tools we use. Here it is our Mac [and since I've been working in multiplatforms for seven years I have not quite a fresh]. Actually, from my experience I would say over 10 percent of the designers and multimedia people use Macs in their work. A few of the PC users are actually forced to do so at work.

My advice, unless you know them, then would be: accounting, business, company reports, and the Internet and personal government all kind of things may have the professional design thing—Power! It helps us to read it.

Oh, and if you want to do this, at least make sure what you do write is actually helpful. OK?

Tom Brown

...and feedback

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IBM 5666MHz Pentium Processor	\$1,039.00
IBM 5733MHz Pentium Processor	\$1,049.00
IBM 5800MHz Pentium Processor	\$1,059.00
IBM 5866MHz Pentium Processor	\$1,069.00
IBM 5933MHz Pentium Processor	\$1,079.00
IBM 6000MHz Pentium Processor	\$1,089.00
IBM 6066MHz Pentium Processor	\$1,099.00
IBM 6133MHz Pentium Processor	\$1,109.00
IBM 6200MHz Pentium Processor	\$1,119.00
IBM 6266MHz Pentium Processor	\$1,129.00
IBM 6333MHz Pentium Processor	\$1,139.00
IBM 6400MHz Pentium Processor	\$1,149.00
IBM 6466MHz Pentium Processor	\$1,159.00
IBM 6533MHz Pentium Processor	\$1,169.00
IBM 6600MHz Pentium Processor	\$1,179.00
IBM 6666MHz Pentium Processor	\$1,189.00
IBM 6733MHz Pentium Processor	\$1,199.00
IBM 6800MHz Pentium Processor	\$1,209.00
IBM 6866MHz Pentium Processor	\$1,219.00
IBM 6933MHz Pentium Processor	\$1,229.00
IBM 7000MHz Pentium Processor	\$1,239.00
IBM 7066MHz Pentium Processor	\$1,249.00
IBM 7133MHz Pentium Processor	\$1,259.00
IBM 7200MHz Pentium Processor	\$1,269.00
IBM 7266MHz Pentium Processor	\$1,279.00
IBM 7333MHz Pentium Processor	\$1,289.00
IBM 7400MHz Pentium Processor	\$1,299.00
IBM 7466MHz Pentium Processor	\$1,309.00
IBM 7533MHz Pentium Processor	\$1,319.00
IBM 7600MHz Pentium Processor	\$1,329.00
IBM 7666MHz Pentium Processor	\$1,339.00
IBM 7733MHz Pentium Processor	\$1,349.00
IBM 7800MHz Pentium Processor	\$1,359.00
IBM 7866MHz Pentium Processor	\$1,369.00
IBM 7933MHz Pentium Processor	\$1,379.00
IBM 8000MHz Pentium Processor	\$1,389.00
IBM 8066MHz Pentium Processor	\$1,399.00
IBM 8133MHz Pentium Processor	\$1,409.00
IBM 8200MHz Pentium Processor	\$1,419.00
IBM 8266MHz Pentium Processor	\$1,429.00
IBM 8333MHz Pentium Processor	\$1,439.00
IBM 8400MHz Pentium Processor	\$1,449.00
IBM 8466MHz Pentium Processor	\$1,459.00
IBM 8533MHz Pentium Processor	\$1,469.00
IBM 8600MHz Pentium Processor	\$1,479.00
IBM 8666MHz Pentium Processor	\$1,489.00
IBM 8733MHz Pentium Processor	\$1,499.00
IBM 8800MHz Pentium Processor	\$1,509.00
IBM 8866MHz Pentium Processor	\$1,519.00
IBM 8933MHz Pentium Processor	\$1,529.00
IBM 9000MHz Pentium Processor	\$1,539.00
IBM 9066MHz Pentium Processor	\$1,549.00
IBM 9133MHz Pentium Processor	\$1,559.00
IBM 9200MHz Pentium Processor	\$1,569.00
IBM 9266MHz Pentium Processor	\$1,579.00
IBM 9333MHz Pentium Processor	\$1,589.00
IBM 9400MHz Pentium Processor	\$1,599.00
IBM 9466MHz Pentium Processor	\$1,609.00
IBM 9533MHz Pentium Processor	\$1,619.00
IBM 9600MHz Pentium Processor	\$1,629.00
IBM 9666MHz Pentium Processor	\$1,639.00
IBM 9733MHz Pentium Processor	\$1,649.00
IBM 9800MHz Pentium Processor	\$1,659.00
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125L450	Celeron 550MHz	128MB	10GB	40X	13.3" TFT	\$1,590
125L451	P3-450 644MHz	128MB	10GB	40X	13.3" TFT	\$1,640
125L452	P3-450 644MHz	256MB	10GB	40X	13.3" TFT	\$1,690
125L453	P3-450 644MHz	512MB	10GB	40X	13.3" TFT	\$1,740
125L454	P3-450 644MHz	1024MB	10GB	40X	13.3" TFT	\$1,790
125L455	P3-450 644MHz	2048MB	10GB	40X	13.3" TFT	\$1,840
125L456	P3-450 644MHz	4096MB	10GB	40X	13.3" TFT	\$1,890
125L457	P3-450 644MHz	8192MB	10GB	40X	13.3" TFT	\$1,940
125L458	P3-450 644MHz	16384MB	10GB	40X	13.3" TFT	\$1,990
125L459	P3-450 644MHz	32768MB	10GB	40X	13.3" TFT	\$2,040
125L460	P3-450 644MHz	65536MB	10GB	40X	13.3" TFT	\$2,090
125L461	P3-450 644MHz	131072MB	10GB	40X	13.3" TFT	\$2,140
125L462	P3-450 644MHz	262144MB	10GB	40X	13.3" TFT	\$2,190
125L463	P3-450 644MHz	524288MB	10GB	40X	13.3" TFT	\$2,240
125L464	P3-450 644MHz	1048576MB	10GB	40X	13.3" TFT	\$2,290
125L465	P3-450 644MHz	2097152MB	10GB	40X	13.3" TFT	\$2,340
125L466	P3-450 644MHz	4194304MB	10GB	40X	13.3" TFT	\$2,390
125L467	P3-450 644MHz	8388608MB	10GB	40X	13.3" TFT	\$2,440
125L468	P3-450 644MHz	16777216MB	10GB	40X	13.3" TFT	\$2,490
125L469	P3-450 644MHz	33554432MB	10GB	40X	13.3" TFT	\$2,540
125L470	P3-450 644MHz	67108864MB	10GB	40X	13.3" TFT	\$2,590
125L471	P3-450 644MHz	134217728MB	10GB	40X	13.3" TFT	\$2,640
125L472	P3-450 644MHz	268435456MB	10GB	40X	13.3" TFT	\$2,690
125L473	P3-450 644MHz	536870912MB	10GB	40X	13.3" TFT	\$2,740
125L474	P3-450 644MHz	1073741824MB	10GB	40X	13.3" TFT	\$2,790
125L475	P3-450 644MHz	2147483648MB	10GB	40X	13.3" TFT	\$2,840
125L476	P3-450 644MHz	4294967296MB	10GB	40X	13.3" TFT	\$2,890
125L477	P3-450 644MHz	8589934592MB	10GB	40X	13.3" TFT	\$2,940
125L478	P3-450 644MHz	17179869184MB	10GB	40X	13.3" TFT	\$2,990
125L479	P3-450 644MHz	34359738368MB	10GB	40X	13.3" TFT	\$3,040
125L480	P3-450 644MHz	68719476736MB	10GB	40X	13.3" TFT	\$3,090
125L481	P3-450 644MHz	137438953472MB	10GB	40X	13.3" TFT	\$3,140
125L482	P3-450 644MHz	274877906944MB	10GB	40X	13.3" TFT	\$3,190
125L483	P3-450 644MHz	549755813888MB	10GB	40X	13.3" TFT	\$3,240
125L484	P3-450 644MHz	1099511627776MB	10GB	40X	13.3" TFT	\$3,290
125L485	P3-450 644MHz	2199023255552MB	10GB	40X	13.3" TFT	\$3,340
125L486	P3-450 644MHz	4398046511104MB	10GB	40X	13.3" TFT	\$3,390
125L487	P3-450 644MHz	8796093022208MB	10GB	40X	13.3" TFT	\$3,440
125L488	P3-450 644MHz	17592186044416MB	10GB	40X	13.3" TFT	\$3,490
125L489	P3-450 644MHz	35184372088832MB	10GB	40X	13.3" TFT	\$3,540
125L490	P3-450 644MHz	70368744177664MB	10GB	40X	13.3" TFT	\$3,590
125L491	P3-450 644MHz	140737488355328MB	10GB	40X	13.3" TFT	\$3,640
125L492	P3-450 644MHz	281474976710656MB	10GB	40X	13.3" TFT	\$3,690
125L493	P3-450 644MHz	562949953421312MB	10GB	40X	13.3" TFT	\$3,740
125L494	P3-450 644MHz	1125899906842624MB	10GB	40X	13.3" TFT	\$3,790
125L495	P3-450 644MHz	2251799813685248MB	10GB	40X	13.3" TFT	\$3,840
125L496	P3-450 644MHz	4503599627370496MB	10GB	40X	13.3" TFT	\$3,890
125L497	P3-450 644MHz	9007199254740992MB	10GB	40X	13.3" TFT	\$3,940
125L498	P3-450 644MHz	18014398509481984MB	10GB	40X	13.3" TFT	\$3,990
125L499	P3-450 644MHz	36028797018963968MB	10GB	40X	13.3" TFT	\$4,040
125L500	P3-450 644MHz	72057594037927936MB	10GB	40X	13.3" TFT	\$4,090
125L501	P3-450 644MHz	144115188075855872MB	10GB	40X	13.3" TFT	\$4,140
125L502	P3-450 644MHz	288230376151711744MB	10GB	40X	13.3" TFT	\$4,190
125L503	P3-450 644MHz	576460752303423488MB	10GB	40X	13.3" TFT	\$4,240
125L504	P3-450 644MHz	1152921504606846976MB	10GB	40X	13.3" TFT	\$4,290
125L505	P3-450 644MHz	2305843009213693952MB	10GB	40X	13.3" TFT	\$4,340
125L506	P3-450 644MHz	4611686018427387904MB	10GB	40X	13.3" TFT	\$4,390
125L507	P3-450 644MHz	9223372036854775808MB	10GB	40X	13.3" TFT	\$4,440
125L508	P3-450 644MHz	18446744073709551616MB	10GB	40X	13.3" TFT	\$4,490
125L509	P3-450 644MHz	36893488147419103232MB	10GB	40X	13.3" TFT	\$4,540
125L510	P3-450 644MHz	73786976294838206464MB	10GB	40X	13.3" TFT	\$4,590
125L511	P3-450 644MHz	147573952589676412928MB	10GB	40X	13.3" TFT	\$4,640
125L512	P3-450 644MHz	295147905179352825856MB	10GB	40X	13.3" TFT	\$4,690
125L513	P3-450 644MHz	590295810358705651712MB	10GB	40X	13.3" TFT	\$4,740
125L514	P3-450 644MHz	1180591620717411303424MB	10GB	40X	13.3" TFT	\$4,790
125L515	P3-450 644MHz	2361183241434822606848MB	10GB	40X	13.3" TFT	\$4,840
125L516	P3-450 644MHz	4722366482869645213696MB	10GB	40X	13.3" TFT	\$4,890
125L517	P3-450 644MHz	9444732965739290427392MB	10GB	40X	13.3" TFT	\$4,940
125L518	P3-450 644MHz	18889465931478580854784MB	10GB	40X	13.3" TFT	\$4,990
125L519	P3-450 644MHz	37778931862957161709568MB	10GB	40X	13.3" TFT	\$5,040
125L520	P3-450 644MHz	75557863725914323419136MB	10GB	40X	13.3" TFT	\$5,090
125L521	P3-450 644MHz	151115727451828646838272MB	10GB	40X	13.3" TFT	\$5,140
125L522	P3-450 644MHz	302231454903657293676544MB	10GB	40X	13.3" TFT	\$5,190
125L523	P3-450 644MHz	604462909807314587353088MB	10GB	40X	13.3" TFT	\$5,240
125L524	P3-450 644MHz	1208925819614629174706176MB	10GB	40X	13.3" TFT	\$5,290
125L525	P3-450 644MHz	2417851639229258349412352MB	10GB	40X	13.3" TFT	\$5,340
125L526	P3-450 644MHz	4835703278458516698824704MB	10GB	40X	13.3" TFT	\$5,390
125L527	P3-450 644MHz	9671406556917033397649408MB	10GB	40X	13.3" TFT	\$5,440
125L528	P3-450 644MHz	19342813113834066795298816MB	10GB	40X	13.3" TFT	\$5,490
125L529	P3-450 644MHz	38685626227668133590597632MB	10GB	40X	13.3" TFT	\$5,540
125L530	P3-450 644MHz	77371252455336267181195264MB	10GB	40X	13.3" TFT	\$5,590
125L531	P3-450 644MHz	154742504910672534362390528MB	10GB	40X	13.3" TFT	\$5,640
125L532	P3-450 644MHz	309485009821345068724781056MB	10GB	40X	13.3" TFT	\$5,690
125L533	P3-450 644MHz	618970019642690137449562112MB	10GB	40X	13.3" TFT	\$5,740
125L534	P3-450 644MHz	1237940039285380274899124224MB	10GB	40X	13.3" TFT	\$5,790
125L535	P3-450 644MHz	2475880078570760549798248448MB	10GB	40X	13.3" TFT	\$5,840
125L536	P3-450 644MHz	4951760157141521099596496896MB	10GB	40X	13.3" TFT	\$5,890
125L537	P3-450 644MHz	9903520314283042199193993792MB	10GB	40X	13.3" TFT	\$5,940
125L538	P3-450 644MHz	19807040628566084398387987584MB	10GB	40X	13.3" TFT	\$5,990
125L539	P3-450 644MHz	39614081257132168796775975168MB	10GB	40X	13.3" TFT	\$6,040
125L540	P3-450 644MHz	79228162514264337593551950336MB	10GB	40X	13.3" TFT	\$6,090
125L541	P3-450 644MHz	158456325028528675187103900672MB	10GB	40X	13.3" TFT	\$6,140
125L542	P3-450 644MHz	316912650057057350374207801344MB	10GB	40X	13.3" TFT	\$6,190
125L543	P3-450 644MHz	633825300114114700748415602688MB	10GB	40X	13.3" TFT	\$6,240
125L544	P3-450 644MHz	1267650600228229401496831205376MB	10GB	40X	13.3" TFT	\$6,290
125L545	P3-450 644MHz	2535301200456458802993662410752MB	10GB	40X	13.3" TFT	\$6,340
125L546	P3-450 644MHz	5070602400912917605987324821504MB	10GB	40X	13.3" TFT	\$6,390
125L547	P3-450 644MHz	10141204801825835211974649643008MB	10GB	40X	13.3" TFT	\$6,440
125L548	P3-450 644MHz	20282409603651670423949299286016MB	10GB	40X	13.3" TFT	\$6,490
125L549	P3-450 644MHz	40564819207303340847898598572032MB	10GB	40X	13.3" TFT	\$6,540
125L550	P3-450 644MHz	81129638414606681695797197144064MB	10GB	40X	13.3" TFT	\$6,590
125L551	P3-450 644MHz	162259276829213363391594394288128MB	10GB	40X	13.3" TFT	\$6,640
125L552	P3-450 644MHz	324518553658426726783188788576256MB	10GB	40X	13.3" TFT	\$6,690
125L553	P3-450 644MHz	649037107316853453566377577152512MB	10GB	40X	13.3" TFT	\$6,740
125L554	P3-450 644MHz	1298074214633706907132755154305024MB	10GB	40X	13.3" TFT	\$6,790
125L555	P3-450 644MHz	2596148429267413814265510308610048MB	10GB	40X	13.3" TFT	\$6,840
125L556	P3-450 644MHz	519229685853482762853102061722096MB	10GB	40X	13.3" TFT	\$6,890
125L557	P3-450 644MHz	1038459371706965525706204123444192MB	10GB	40X	13.3" TFT	\$6,940
125L558	P3-450 644MHz	2076918743413931051412408246888384MB	10GB	40X	13.3" TFT	\$6,990
125L559	P3-450 644MHz	4153837486827862102824816493776768MB	10GB	40X	13.3" TFT	\$7,040
125L560	P3-450 644MHz	8307674973655724205649632987553536MB	10GB	40X	13.3" TFT	\$7,090
125L561	P3-450 644MHz	16615349947311448411299265975107072MB	10GB	40X	13.3" TFT	\$7,140
125L562	P3-450 644MHz	33230699894622896822598531950214144MB	10GB	40X	13.3" TFT	\$7,190
125L563	P3-450 644MHz	66461399789245793645197063900428288MB	10GB	40X	13.3" TFT	\$7,240
125L564	P3-450 644MHz	132922799578491587290394127800856576MB	10GB	40X	13.3" TFT	\$7,290
125L565	P3-450 644MHz	265845599156983174580788255601713152MB	10GB	40X	13.3" TFT	\$7,340
125L566	P3-450 644MHz	531691198313966349161576511203426304MB	10GB	40X	13.3" TFT	\$7,390
125L567	P3-450 644MHz	1063382396627932698323153022406852608MB	10GB	40X	13.3" TFT	\$7,440
125L568	P3-450 644MHz	21267647932558653966463060448137121216MB	10GB	40X	13.3" TFT	\$7,490
125L569	P3-450 644MHz	42535295865117307932926120896274242432MB	10GB	40X	13.3" TFT	\$7,540
125L570	P3-450 644MHz	85070591730234615865852241792548484864MB	10GB	40X	13.3" TFT	\$7,590
125L571	P3-450 644MHz	17014118346046923173171048358508889728MB	10GB	40X	13.3" TFT	\$7,640
125L572	P3-450 644MHz	34028236692093846346342096717017779456MB	10GB	40X	13.3" TFT	\$7,690
125L573	P3-450 644MHz	68056473384187692692684193434035558912MB	10GB	40X	13.3" TFT	\$7,740
125L574	P3-450 644MHz	136112946768375385385368386868071117824MB	10GB	40X	13.3" TFT	\$7,790
125L575	P3-450 644MHz	272225893536750770770736773736142235648MB	10GB	40X	13.3" TFT	\$7,840
125L576	P3-450 644MHz	544451787073501541541473447472284471296MB	10GB	40X	13.3" TFT	\$7,890
125L577	P3-450 644MHz	1088903574147003083082946894944568942592MB	10GB	40X	13.3" TFT	\$7,940
125L578	P3-450 644MHz	21778071482940061661658937898891377851				

What's New

Continued from page 12

41-403 memory card. Optional accessories include video memory cards, a sampling buffer video/audio cards, interchangeable batteries with charge and a built-in USB connection (QVGA 10) for quickly downloading files to a PC. (QVGA 10) for quickly downloading files to a PC. —COP Staff

VIA2 modem interoperability done?

SAR 2002, 4477—Nokia. (via2.com/nokia) has staged a series of successful demonstrations of its V12 for Chip modem technology with similar systems from Chips (via2.com/nokia). The move brings the impact of faster connection times and faster uploads for making Internet services more useful steps closer.

While the first 10-compliant modems have already been shipping for several months, only a handful of Internet service providers (ISPs) have embraced the new standard, mostly because of the compatibility issues.

As with the debut of V10 modems in the mid 1990s, users are reporting some troubling trouble with the first crop of V12 modems.

To be fair to the modem vendors, these problems relate to installation issues with ISPs and other carriers, as well as local area network compatibility issues.

Because of these issues, many ISPs are taking a soft, wily approach to supporting the new modem standard, but widespread support for V12 is expected in the Internet access industry within the next year.

Demonstrating its V12 interoperability with various line chips, Nokia and such firms will ensure that consumers can enjoy V12's enhanced Internet experience with normal compatibility across about equipment from different suppliers.

In well as optimal speeds approaching similar levels to 10Mbps, several speeds, V12 supports faster connection speeds, (via2.com/nokia) and interactivity, the ability to put an Internet service on hold while a second voice call is made is ensured.

While Nokia's Helsinki software products division (SD) managing director, said that interoperability with leading vendor access servers (RAS) suppliers is an important step in the development of RAS technology. —Glenfield

Belkin.com joins Cramer's Island

A Canadian computer maker has teamed up with one of the most talked about chip firms here the U.S. to create its latest mobile server. In February (via2.com/nokia) unveiled the Belkin.com 2000 a server displaying (via2.com/nokia)

Letters

Continued from page 19

gloating from the latest Mac just to the focus who criticize your 120 test methods.

Being accurate in a really complex field is at the best of times impossible.

My example is at automotive technology. I work with highly sophisticated vehicles, there are so few firms to use "patents" as "test" for license issues, the manufacturers provide you with 100 help in documentation.

Whenver, this is exactly at best—if you can afford the \$20,000 to \$25,000 for some manuals to cover the hundreds of miles and models, the 1-800 support, 800-800-1000. So to back with these involved sources that think they're not with computers. Some show me what you know and you'll be surprised how much you know. I've got 20 years in this cup (delivered) and I've what you pay at 100-100.

Please print this in an issue so I can show some people who need to read it.

Richard Church

Chip's Cause microprocessor

This new microprocessor is made for small-to-medium businesses. According to a press release, Transmeta's chip 58 the computer's dimensions and the needs of Intel.com's customers.

"The 5800 1000 typically uses only 14 watts of power, while staying cool in its 1.1g box. By comparison, it typically uses power-based server chips approximately 30 watts of power in a 1.1g box."

A Transmeta spokesman recently said that the company was making plans to move into the server space.

On the surface, it's an unlikely business prospect for the chip designer. Transmeta hit the computer scene last year with a low-power, variable-speed processor Cramer.

It seemed the firm was aiming for the mid-market, computer market. But lately, Intel, Chip stopped so far with its own low-power, variable-speed Pentium III processor. At least, one of Transmeta's potential clients—IBM.

Chip—Transmeta's only ever Cramer for a new product.

Despite setbacks, Transmeta has forged ahead with its plans—including partnerships with server builders. Intel.com's announcement

likely counts as one such deal.

Transmeta's Figure 10, low-consumption processor will be useful for users, which will mean power than many a first-center operator would like.

As for the Belkin.com 2000, it does the usual server-finder Internet connections, firewall protection, which provide networks for servers across and "any system start-up," according to Intel.com. It's not the cheapest server at \$2,100, but Intel.com proudly figures the low-power consumption and speed it offers make up for the lower price.

—Glenfield

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Collaboration and the Net

Whether it's a shared calendar, a threaded discussion board, a common contact list or secure document storage, people who work together need tools to do their project work effectively and efficiently

By Heather Hoffman

I had a camp counselor when I was ten. "Many hands make light work," it was his way of getting us all to pitch in and give him a helping hand. In those days it was called teamwork and cooperation. Although under there are two languages, the dual-meaning computing and online collaboration, the concept remains the same. When many people contribute to the project, the work gets done faster. And if it's well managed, the collective contribution of many minds also makes it better.

Many collaborations focus on entertainment, to help team members understand their role and make an effective contribution. The most useful collaborations are those that can be created and managed by the team members themselves. The early focus primarily on tools and services that are available to individual and team use, don't require the kinds of complex server configurations typically performed by corporate IT departments—making them ideal for the home office environment.

Although Lotus Notes may be a great collaboration tool, you need professional help to get started and to perform custom tasks like adding users and setting up projects. When I want to work with friends and colleagues, either for business or pleasure, the tools that I prefer to use are those we can handle on our own.

In computer terms, the kind of sharing I usually called peer-to-peer (P2P). Although Netscape has given P2P a bad name, there are many useful P2P tools that enable individuals to share information and ideas, to work on problems, find solutions, and sometimes have a little fun.

When can we meet?

One of the major challenges of working together in open environments. Meetings, phone calls, and instant messaging are forms of synchronous communication—where the participants communicate with each other in real time. Video-chat, email and instant messaging are asynchronous, and each person participates when it's convenient to do so. Although asynchronous communication can be effective, it requires that each team member perform certain tasks, like checking a Web site or responding to email, in order to make a contribution.

Synchronization is also important when documents are one of the team's tasks or deliverables. In order to manage a calendar, find document content groups, each must have an instant dialog that overwrites changes regularly. This is particularly important in a team that meets often with a more formal agenda. In asynchronous working on the same document, without an ownership role, or a strategy that gives ownership from one to the other, changes made by the first member are lost when the second comes.

In the absence of formal written control software, those rules will likely have to be explicit, agreed-upon procedures for most teams. There are some sophisticated collabora-



tion spaces that do have document support and sign-out procedures and the associated required to enable individuals to perform various.

Online collaboration

The use of live services on the Web is quickly coming to an end. Microsoft, an excellent example, developed—and a PC. Microsoft's Office Live has replaced—turned off its services clearly before Christmas. While, the best of the document focus does not mean the end of all live online services, the closing of the likes of Microsoft reminds us to be careful about the expectations we have of these services.

There are many web-based collaboration services. They range from the simple ones that offer just a team calendar feature to complex available spaces designed for online collaboration. Implementations are still few, and the latest tools (for example, after.com) or Yahoo! groups (for example), they are extensions of its email service. At these sites, you often get a email address (for example, after@after.com) and an online space to send messages, share a few documents, and post calendar. Membership is by invitation, and access is password protected. Team members log into

the site to see what's happening.

Yahoo! groups can be open, restricted, or closed. Anyone can self-subscribe to an open group. The moderate requires membership in a restricted group. In a closed group, the moderator must create members. Messages to the group can be moderated with all messages being automatically sent to all members, moderated or not in moderation. One of the group moderators (Group member can select to view messages on the group page or have messages sent to their email account, unless they opt out or as a daily summary.

Yahoo! services has a less complex feature set but a broader age range including file and bookend sharing. There are many more similar services.

Documents

Working together nearly always involves some sharing of documents like, which is rarely done a problem. Sometimes an ad hoc temporary email gateway but not in other situations don't work properly. As a result, many teams use online storage Web sites, like the FreeDrive (FreeDrive.com), iShare (iShare.com), and iShare (iShare.com) to transfer files. Each provides at least 50 MB of free online space in

most whatever file you need to store. This allows team members, and even clients who need access to specific documents, to download the file they need when they're ready, without having to wait a 24-hour file-availability window or a download of megabytes.

Although FreeWeb Storage (FreeWebStorage.com) provides free storage space, it is not as useful as a web application where the storage management system. When you download a document from the online folder, FreeWeb "locks" it. This lets other team members have you are currently editing the document. When you upload a new version, you can choose whether FreeWeb and users in each of the members of the group to let them know that the file has been updated. FreeWeb lets the site administrator decide who can edit and who can only view documents.

The experience of interacting with a browser, where the screen must be refresh each time a document is made or an action performed, can slow productivity in a crowd. Updating online calendars and creating applications to online address books are particularly common tasks, so make sure that the computer or the web browser.

Common networks

Although it's still in private mode, Google Networks (GoogleNetworks.com) is already a very useful tool. This is the latest project from Ben Gomes, the creator behind Lotus Notes. The Google client is in public beta that runs on the desktop, instead of on the Web. This makes a more powerful online result, it is much more transparent than the online tools.

Within Google, you can create shared spaces for as many business and personal projects as you need. Spaces can contain documents, files, images, an address, a calendar, a contact manager, and many more tools including games like chess and 20-48-100.

You can invite others to participate in your spaces, and you can join the shared spaces others have created. As a result, each user's Google space will be unique—a collection of their current interests and projects.

Online team members can work together, sharing the common workspace. When two members share a file, a link or a comment, it quickly appears in the Google space of the other team members.

Although it's a peer-to-peer application, Google's servers detect new data for your group while you are online. When you return, your shared space can automatically update with the new messages, documents, and other data that was added after you left. When the process is over Google says it will change users for a more secure professional version, while continuing to maintain a free service.

Instant messaging

Although mostly seen in the context of friends exchanging the chat-cha, instant messaging (IM) tools like ICQ

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Return of the network effect

As the two-computer home office becomes increasingly common, sharing printers, Internet access, and other peripheral devices moves from "nice to have" to "need to have"

By Sean Connolly

One thing that can add to your productivity in the home office is a well-configured network. People who work at home might have more than one personal computer scattered around one or two rooms, and a few pairs of removable media (floppy disks, CD-RWs, or Zip cartridges) to get their work and files between computers. This rural, isolated, unending method, nonetheless, is an inarguable low-cost solution if you've got just a few pieces of data to share the around.

With the penetration of broadband Internet into the home (and thus the home office), the limitations of a modest set become apparent—it's not possible to surf the Web via floppy floppies or all it's required to get data quickly to all of the machines on your network.

One of the solutions is a new category of networking hardware: broadband sharing devices. These items sit between your broadband connection and your PCs and act as a single connection point to the outside world, usually as a very nice feature of your broadband provider charges per IP address. When a sharing device is plugged into your broadband connection, it is the only thing your provider sees. Even better, these devices are fully configurable hardware firewalls, allow-

ing you to share data between your PCs in your LAN while blocking out the hackers. What more do you need to be productive?

The February 2001 issue of *The Computer Paper* contained a roundup of networking hardware for the home and small office, including broadband-sharing devices. (The roundup can also be found online at <http://thecomputerpaper.com>.) This month, we had the chance to look at some products that we did not see in time for the February roundup.

Fast Internet Gateway (FIGW)

from Cerberus, LLC, Canada

<http://www.cerberus.ca>

Suggested retail price: \$199

- Supports 10/100 Mbps ports
- Supports for both cable and DSL connections
- DHCP server (also has static IP address, 1 to 4 IP addresses allowed)
- HTTP-enabled Proxy (allowing FTP and POP) support
- Built-in packet-based router to NAT connections
- Remote port for setting a pointer among connected devices
- Real-time status
- Two Ethernet cables included

You probably know FIGW because of its cool logo: a modem. That's the name of Cerberus' networking family. As broadband sharing devices go, Cerberus' FIGW is one of the most sta-

ble, with a compact black metal case, and all of the ports laid out in a neat fashion. That would be normal if it didn't look the way it should, and it does—up front all of the features you'd expect on a broadband sharing box.

To set up the device, you turn it on and plug a PC into a via Ethernet, and if the PC is set up to automatically obtain an address via DHCP, the Cerberus gateway will assign one. Once the PC has an address, you connect to the FIGW via Web-browser and from there you can set up your special settings, including constants and password for HTTP connections, firewall settings, and dynamic routing.

Setup was exceptionally easy and after rebooting the device, we had our test bench up and running and sharing a DSL connection. During our testing period, connection was made with the DSL provider almost instantly, and the connection held firm.

One of the main aspects of the FIGW is that despite all of the features of the device, it is considerably less expensive (by at least \$40) than the other two-port Internet-sharing boxes we reviewed. Considering the performance and design of the device, we have to admit that the price was a very pleasant surprise.

If you already have a switch, or hub, and just need the sharing component (DHCP, connections and firewall), as well as the parallel and serial ports) Cerberus has the (FIGW),

which is a single-port device for a suggested price of \$119. If you would prefer a two-port device instead, the FIGW2 is what you'd want, at a suggested retail price of \$209.

B-Link Cable/BIS

Internet Gateway (BIGW)

from B-Link Systems

<http://www.blink.ca>

Suggested retail price: \$249

- Supports 10/100 Mbps ports
- Supports for both cable and DSL connections
- Supports both PPPoE and Virtual Private Networking (VPN) (PPPoE)



- Good connection for shared routers in DSL-based home
- DHCP server supports up to 100 connected nodes
- Two Ethernet cables included
- Ultra-thin design

B-Link is one of the biggest names in the networking business, so it's no surprise you'll expect a

(Continued on page 32)

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- Logitech wheel mouse and pad

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Collaboration and the net

Continued from page 20
(by.bruce@comcast.net), AOL Instant Messenger (by.bruce@comcast.net), and MSN Messenger (by.bruce@comcast.net) can also be used effectively in a business context. These instant-messaging tools are used members of a workgroup to be instant contact—the electronic equivalent of a quick verbal exchange by two employees at desks and desks. Obviously it shouldn't replace all contact, but I've used IM and effectively with team spread around an office or across the enterprise.

For most offices where direct managers, espe-

cially as assistants and secretaries, are enlarged. It's faster than sending mail, and thus can require the time and conversational possibilities usually involved in face-to-face or telephone conversations.

Although they require special tools and hardware, instant capabilities have also been incorporated in IM programs, both in the form of computer-to-computer and computer-to-telephone connections. The computer-to-computer connections are typically free, and although computer-to-telephone connections have been free in the past, they are now transitioning to the for-the-service model.

IM applications are also useful for transfer-

ring files, another way to avoid a mail gateway that doesn't like large attachments. If you are selecting an IM application for an work environment, for the moment, MSN Messenger has a slightly more professional, less cluttered look than Instant Messenger and AOL.

Videoconferencing

There are literally hundreds of companies now before videoconferencing will be the next big thing. Suppliers, ranging from modest high-end proprietary systems to those offering Web-based tools cost less than \$100, are expected that the year, or two, will be the year of videoconferencing.

I'm not, is it the completely involved in negotiating and setting up a Web-based? The postage-stamp and images and the poor quality? Or the fact that most of a job don't like the way they can connect maybe it's a corporate benefit?

There is a growing use (and not just) from using a Web-based design for the occasional weekly demonstration should not pay you from using Microsoft's Web Conferencing for the and even the best use for the synchronous distance collaboration between two or more group members. However, possibly because of the low, possibly because of the first attempt a videoconferencing, even has not started to grow.

the product the situation it deserves.

Yes, it does enjoy and audio conferencing, but in other capabilities are more useful and much more expensive. They can allow several people to work on a document at the same time, while they are at their own computers.

Because you can see what the person who is currently is working on during a real time Web Conferencing participants can take full control of the shared application, modifying and a Web-based, remote office in Web Conferencing is working transactions in Web Conferencing and while everyone can work on the document, modified, or group, only one person needs to run, or even install the application that's being shared. It's a great way to run a video meeting. In my experience, while you're using Web Conferencing, it's best to use the phone for a live voice connection with your collaborators.

Tasks and assignments

The final aspect of teamwork is task management and project reporting. These project management tools are in monitoring detail and making sure team members understand the dependencies between their deliverables and when prior the project. Project plans are one of the requirements of projects in a corporate environment, and small groups and personal projects may prefer to conduct their themselves.

Outlook, but unfortunately not Outlook Express, can be used to create tasks and can also be used by team members to report on the status of their tasks. A desktop tool like Microsoft Project or an online service like Outright can be used to create tasks and report on the dependencies between tasks. While tasks are designed, small messages are sent as the person assigned if the task is a dependent task, the message is sent and the dependent task is completed.

Team members have a way when they can check in and report on their tasks. The message can generate reports by project, team members, and complete tasks. The site also includes a full of storage for the team's completed deliverables.

Although we'll all prefer that these tools remain accessible at no cost, now that the Internet's free model is falling from favor, I'm ready to pay a reasonable fee for a useful service. Luckily they're only required for a list of the services you'll need for your next collaborative project. □

Barry is a freelance writer. He specializes in web and to barry@barry.com.

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Multifunction device lives up to its name

In a product category that has had an inauspicious start, Brother gets it right with MFC 9600

By Tom Ichniowski

It wasn't long ago that multifunction devices had a bad reputation. The first models I used did many things, but none of them with accuracy: you often gave up trying to fax, print, photocopy, and print-to-USB, but not even go there.

Brother MFC 9600

From Brother International Corporation (Brooklyn, NY)
Tel: 800/541-4343; <http://www.brother.com>
Estimated street price: \$1,079

Still, I always believed multifunction devices were a good idea, especially for small business and home office environments where purchasing a separate copier, printer, fax, and scanner would not only be cost prohibitive, but there would also be the question of where to put all the hardware.

Lately, over the years, multifunction devices have improved in design and quality, overcoming many of the problems once associated with these product categories.

I have my own small home office, so was eager to try one of the latest multifunctioners from Brother, the MFC 9600. As a self-proclaimed techie, I was sure this device was targeted at doing with the three traditional MFCs in TFP's November 1998 Test Lab for the editor's choice award. So, if I impressed our guys in the Test Lab, I wanted to see how well it would up to actual home office use.

Could it get up and working quickly without a lot of fiddling around with settings? If

home people who have picked up devices of this type and use too less time fussing over defaults?

Off the bat, I was very impressed by all of the features Brother pushed into the MFC 9600: colour scanning, printing, copying, and even video capture. The compact design fit snugly on the small space on my desk that I had left for a printer. In addition to software drivers, the hardware came loaded with Windows PaperPort, TextBridge, OCR, Card Front and Photo Frame, and iPhoto.

The process of setting up that software, however, was less than intuitive. Similar to the Test Lab's experience, I found the extensive installation of software to be rather buggy process that caused my system to hang a couple of times. It would not automatically install the PaperPort software required to get the other drivers and software working correctly. This happened even when I checked off the option for automatically installing PaperPort first. Since I did not, I had to reinstall everything and begin again this time loading PaperPort on the CD-ROM, installing it first, then installing the other drivers and programs. The very thing that is supposed to only support for the USB port wasn't automatically installed. I decided to stick with my trusty serial cable connection for my test.

Up and running

Once set up, the MFC 9600 ran very well. Both my wife and I tested the unit over the

period of a week in the home office. I tend to spend a lot of time doing office research, so naturally used the MFC 9600 to print a mix of text and images in the form of articles, white papers, and other material—on average, about 40 to 60 a day.

My wife, who is a full-time university student, spends a lot of time working off campus printing out articles and manuscripts and photocopying documents for class reference. She is also a bit of a shopping and e-copied addict and is printing off the photos she has taken with a film camera (she's modifying an iPhoto image editing software to get the images). On average, she was printing nearly 50 pages a day.

The laser print quality was excellent, and the print speed good (the installation time took about 11 pages per minute). The finished output was easy to cut, ensuring a variety of documents quickly and without too much fuss.

The fax functionality was pretty straightforward, with the Mobile Faxmate Link. Pro software making you through the process of sending a fax. (I never regret buying the second fax line as my home disconnected when I decided to go back to cable modems for my Internet net. It would have made no sense having a whole fax line.)

I only wish that the Windows PaperPort and the TextBridge OCR software were as easy and intuitive to use. The PaperPort program had a rather clunky (looking) interface that requires some fiddling to avoid the functions that allow you to import scanned documents.

ments into a variety of different applications.

As an example, I manually worked on a paper that required information from several print sources. Normally, I would have had to type in the information from three documents (using PaperPort and TextBridge). However, I got startled at the page and thought the file was in the Microsoft Word menu on the PaperPort interface. The installed TextBridge, which converted the scanned images into editable text that I could incorporate into my documents. Whatever frustration I may have had with the clumsy interface was more than made up for with how much time and work this feature saved me.

TextBridge and PaperPort were worked with photos, allowing me to drag a scanned image into the PhotoShop icon, which launched that application. This drag-and-drop functionality works with Word, WordPerfect, and even email programs.

Conclusion

Overall, I found the Brother MFC 9600 to be a solid product even with the setup and installation frustration.

If you're considering a Brother MFC 9600, keep in mind that your workplace or should be well-served. It is a reasonable small of space in the office, particularly heavy amounts of printing and scanning—enough to make you run out of your home office, but enough to be annoying. It was especially nice to see, whether employed one of the most with look of design. Can I please everyone, I suppose. **B**

Bottom of the network stack

Continued from page 21

to be included in the new product category. The DI-104 is also a compact baby device with a lot of features: it's built on including hardware broadband dynamic routing, and real-time power networking. The DI-104 will work with your existing cable modem or DSL connection (including support for PPPoE login). The serial port on the rear of the box allows you to do a dial-up modem or ISDN connection. Unlike a few other Internet sharing devices, the DI-104 does not have a parallel port for printer sharing, which is not disappointing.

Other factoids: the DI-104 is a very nice product, and very easy to set up and use. It

get going, you may be in the mood for a new PC up to date on address automatically on DHCP and plug it into the DI-104, which will auto-configure an IP address. The Web interface for configuration of the product's every way is easy, and offers a lot of power for configuring the device for use with broadband, and for Virtual Private Networking.

As with many things, you pay a bit more when you go with the big brand name, and this is the case here, at least compared to the Com. When you look at the full range of competition products, between the DI-104 and DI-104 is pretty much as low. From better the DI-104, product comes with a lifetime warranty. That alone may justify the slightly higher price. **B**

Local 10-digit dialing coming to 604

Those who live in south of the 49th degree of N Co. (lower Mainland) are accustomed to just dialing the way they make local telephone calls. Instead of dialing seven digits, callers should now include the area code when making local telephone calls, saving time, saving wireless phones, and increasing the Internet.

Starting May 15, local calls made within the 604 area code may only be interrupted by a recorded announcement warning the caller to dial the area code for the next time. The call will then be connected. However, the announcement could change into the 604 number, preventing the call from being connected, thereby an being encourage to prepare their equipment—including speed-dial, auto-dial, and 911 systems—in advance of the May 15 deadline. For tips on more information on 10-digit dialing, go to <http://www.bellcanada.com>.

—RP Staff



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Explosive 3D Graphics Enhancement

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- World's fastest 128-bit 3D texture mapping
- Enhanced 16 frame buffer depth (Z-Buffer)
- High speed memory access rate (1000MHz) memory
- 1600MHz* for GeForce MX will lead the speediest
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NEW & NOTABLE

Slows Windows announces AirCard 750

Windows. After modern manufacturers, Slows Windows (<http://www.slows.com>), has unveiled the AirCard 750 series of wireless PC cards, which it calls the first wireless capable of Internet operation in QPSK packet mode in the GSM and up sectors.

This new series is compatible with networks in Europe, North America, and Asia, offering GSM/GPRS subscriber models, worldwide high-speed access to mail, data, corporate applications and the Internet, according to the company.

The Slows Windows AirCard 750 series will be used with laptops and handheld computers, allowing users to connect to corporate networks or the Internet wirelessly and without the need for a mobile phone connection.

In QPSK packet mode an AirCard 750 can be "always on," allowing the user to stay connected to email, or if he or she were in the office, with no need to make a dial-up modem. QPSK networks work at speeds of up to 115Kbps depending on the grade of service offered by each GSM operator.

—TJF/Inf

Canada pledges to protect kids online

OTTAWA—Canada's justice minister has pledged to introduce new laws this year specifically targeting pedophiles who use the Internet to contact children.

Speaking at a ceremony to launch a new online safety education program, Justice Minister Allan Rock said the proposed legislation would create a new offence called Internet luring and would provide "all the tools necessary to punish those who prey on the Internet and prosecute those who abuse the potential of the Internet."

Rock said the law would make it more difficult for adults to communicate with children via chat rooms, such as Web chat for social purposes.

Rock said Justice Minister Brian Topp referred to the new legislation during the unveiling of Canada's strategy to promote safe,

secure, and responsible Internet use. Controlled by a 20-page booklet titled *Signal and Safeguard Content on the Internet*, the information is supposed to help teachers and parents protect their kids against the dangers to children in the Internet.

More on the federal government's strategy can be found at <http://www.cse.c.gc.ca/pubs/inf>.

—Brenda/Inf

23.5 million now use the Net in China

BELLEVILLE, Ont.—By the end of January 2001 there were more than 23.5 million Internet users in China according to a semi-annual study by the China Internet Network Information Center (CNNIC). Of the 23.5 million, 2.6 million in China are Internet users, and 21.9 million are using Internet users. The latest data on both numbers of Internet users. The CNNIC study also found:

- Beijing is home to 75.42 percent of China's Web sites, while Nanjing, Guangzhou, and Shanghai are home to 14.14 percent, and Shanghai is the host for 33.44 percent.
- Total international bandwidth from China is now 2,778 Mbps.
- The majority of those surveyed were male (China: 79 percent), aged between 18 and 34 (34 percent), and had a bachelor's degree (23 percent).
- Just over 60 percent of Internet users entered the Net from home, and just under 40 percent log on at an office.
- Average Internet use is 30.60 hours per week and is most in the mid-grade salary group.
- Only 10 percent had purchased any goods online in the past year and just under 5 percent had bought something at an online auction. But as much as 35 percent never received goods paid for online.

Users surveyed internationally said that the biggest problem with Internet access in China is a lack of good Internet by high prices.

—Brenda/Inf

Collaboration with Microsoft Office

In order to enable the collaborative process requires to create a document with one or more writers, editors, and/or reviewers, a word processing needs to have several capabilities. First, writers need to be able to save multiple versions, preferably within one document. Second, reviewers need to be able to add comments, mostly text, and insert additional material. Third, editors need to be able to make changes that can be tracked by the writers. Finally, an easy routing feature—one which sends the document from one contributor to the next will encourage the review process and expedite the review process and the approval process.

Each of these features was demonstrated by Lotus when it released the P6 in 1998. Although Microsoft Office suite has not yet entered the market, it has only recently entered the same capabilities.

With 2000 users to be able to use multiple versions in the same file, either upon request or automatically when a document is saved in its repository, this capability is increasingly available.

Although Word's reviewer tracking features have been notified several times, it still suffers from an overly complex process that users can't comprehend. Each reviewer is notified by email, which is not a good idea, as it can be delayed or not received at all.

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—Brenda/Inf

Hands On

Lab Test • Hardware Evaluations • Software & CD-ROM Reviews

Tax time

TOP's annual look at tax software sees an industry in transition from traditional box-on-a-shelf retail to a new bytes-on-a-site model

By Neil Landford

This article started out as a survey of tax-preparation software and services in Canada. However, it grew until it wasn't just about the best way to file taxes, it was also a lesson in the way businesses change. It is a classic example of how continuous developments reduce costs and test the ability of companies to adapt.

It is also an interesting story of the converging net between the traditional box-on-a-shelf retail model and the new bytes-on-a-site model.

Five areas of the software market are a better study than the rapidly evolving tax-preparation market: from cable to graphical, to download this, and next a software phone to online services.

Tax-preparation software is changing from a commodity to a service and the companies involved from manufacturers to application service providers (ASPs). All this has happened in a few short years and not without difficulty. As well, this work has exposed us to Netfile, the new huge expansion of Netfile will greatly tax Canadian online tax services.

Technical effort has been put into providing this and many people in the industry expect this to be the knockout year. My view?

One thing is certain, however, the way for the tax-preparation market will continue on all fronts: broader software, downloaded software and online services. How happy you are with your experience will determine the companies and the equipment.

The online office

At the Internet market, every tax-preparation software company has the possibilities. No less, no CD-ROM, no manual, no step-by-step, no double-tax, look, no credit, then self-pay direct delivery of the product to customer and all of the profits to the developer. It didn't just get quite that way, however.

The main trouble was bandwidth, but there were other Canadian opportunities: now included maintenance value and other factors that just couldn't get down

that page. Then, noting no company offers a downloadable product that can come close to the CD-ROM-based programs. In well, and it recently there was no such thing as Netfile. Adding by a certified tax specialist was available but it added cost and other technical challenges to the process.

Still, no one denies that the Net model is the choice of the future and that tax-prep software was perfect for it. All but one of the five companies before offer a download version of their product. However, it is now clear that the future isn't download, it's online services.

Offline tax services

Rather than buying a CD-ROM or downloading it, the containing the tax forms, it is now possible to complete your return over the Web. With application have now made it a sufficient level of security to make online tax return completion possible. Two other factors being a lot together.

Next, security. When you register to begin an online return the first thing that happens is the site tests your browser to see if it supports 128-bit encryption. If not, you must upgrade your browser. If it does, then all data sent over your device that moment is encrypted and you have the rest.

Another security aspect of the site is that they make it clear that if you lose your password they cannot recover it.

But even these network people can get at your data. These sites are taking great care to make sure that there isn't a security breach. Clearly, a professional kind of someone's tax return that would normally require a computer—likely failure.

The second factor which really makes online services appealing is the development and growth of Netfile.

Netfile

The Netfile concept is simple. Canada Customs and Revenue Agency (CCRA) has declared a format for uploading files to its

site. Companies had the ability to create small files and store taxpayer programs.

To ensure security, each tax agency requires that companies wanting to upload Netfile functionality must be certified. The process for certification is outlined on the CCRA Web page (<http://www.ccrareg.ca>).

Yes, there is a substantial wrong when taxpayers enter their own data. There is also considerable savings in storage space, paper, and postage. So, last year the CCRA offered its Netfile pilot program to download four million Canadians.

The project accepted. There were no file problems and each year through the CCRA has really expanded the program.

This year 21 million taxpayers will find a Netfile home. Code on their T4 forms. Assuming the same 10 percent response rate as in the trial, that will translate to more than one million Canadians using the service. That's a lot of traffic and suggests the federal government is confident about the system.

But, the electronic service for tax professionals, will continue this year but long range plans indicate the service will be merged into Netfile when the latter expands. The full functionality needed by professionals.

Netfile is also becoming a method of filing is also becoming a year for individuals with complex situations.

The future

What if what I listed like the tax time site, a new form has appeared on the Internet and contains a banking sum. The steps of buying a paper form with a CD-ROM could be on the way.

The fear of a pay a price and software companies know it, but we're not there yet. Using Internet access under online services is not a new thing. The consistency of these services means some confusion are confusing.

Continued on page 47

IBM TransNote adds real notepad to portable PC

By Steve Chappell

IBM Canada recently sent a very interesting new product to the Test Lab for preliminary evaluation, the TransNote "portable" notebook computer.

IBM ThinkPad TransNote

Model 1480
<http://www.ibm.ca>
 Price: \$1,200



The device appears to be an average black notebook holding a display when closed. Opening the laptop reveals a ThinkPad notebook screen and keyboard on the left and a ThinkPad notepad and pen holder on the right.

The keyboard has all the necessary keys but no numeric Windows key. A traditional ThinkPad notepad sits in the middle, and there's a mouse button made of the left-hand corner. Above the keyboard, the ThinkPad notepad, like the whole laptop is closed and can be positioned as one for the other for different viewing angles when open.

The coolest thing about the ThinkPad TransNote is that it accepts wireless notes. When it does, enter on the ThinkPad screen, or directly on the notepad, and use it. The technology offers many possibilities.

For example, a user making a presentation could connect the ThinkPad to a projector. Anything shown on either the screen or the notepad would be projected to the audience.

ThinkPad and ThinkPad also can power-aid alone already in history papers in law, the new can take notes on the ThinkPad while the ThinkPad is turned off. Let's a short note will appear on the ThinkPad screen, it is accomplished by the pen.

As long as the ThinkPad is a power-aid alone already in history papers in law, the new can take notes on the ThinkPad while the ThinkPad is turned off. Let's a short note will appear on the ThinkPad screen, it is accomplished by the pen.

Continued on page 48

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 with Brian Costello

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Model	Number of nodes	Number of edges	Number of clusters	Number of clusters
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CPU		RAM
Intel Pentium 100	100	16
Intel Pentium 133	133	16
Intel Pentium 166	166	16
Intel Pentium 200	200	16
Intel Pentium 233	233	16
Intel Pentium 266	266	16
Intel Pentium 300	300	16
Intel Pentium 333	333	16
Intel Pentium 366	366	16
Intel Pentium 400	400	16
Intel Pentium 450	450	16
Intel Pentium 500	500	16
Intel Pentium 550	550	16
Intel Pentium 600	600	16
Intel Pentium 666	666	16
Intel Pentium 700	700	16
Intel Pentium 750	750	16
Intel Pentium 800	800	16
Intel Pentium 866	866	16
Intel Pentium 900	900	16
Intel Pentium 933	933	16
Intel Pentium 966	966	16
Intel Pentium 1000	1000	16
Intel Pentium 1066	1066	16
Intel Pentium 1100	1100	16
Intel Pentium 1133	1133	16
Intel Pentium 1166	1166	16
Intel Pentium 1200	1200	16
Intel Pentium 1266	1266	16
Intel Pentium 1300	1300	16
Intel Pentium 1366	1366	16
Intel Pentium 1400	1400	16
Intel Pentium 1466	1466	16
Intel Pentium 1500	1500	16
Intel Pentium 1566	1566	16
Intel Pentium 1600	1600	16
Intel Pentium 1666	1666	16
Intel Pentium 1700	1700	16
Intel Pentium 1766	1766	16
Intel Pentium 1800	1800	16
Intel Pentium 1866	1866	16
Intel Pentium 1900	1900	16
Intel Pentium 1966	1966	16
Intel Pentium 2000	2000	16
Intel Pentium 2066	2066	16
Intel Pentium 2100	2100	16
Intel Pentium 2166	2166	16
Intel Pentium 2200	2200	16
Intel Pentium 2266	2266	16
Intel Pentium 2300	2300	16
Intel Pentium 2366	2366	16
Intel Pentium 2400	2400	16
Intel Pentium 2466	2466	16
Intel Pentium 2500	2500	16
Intel Pentium 2566	2566	16
Intel Pentium 2600	2600	16
Intel Pentium 2666	2666	16
Intel Pentium 2700	2700	16
Intel Pentium 2766	2766	16
Intel Pentium 2800	2800	16
Intel Pentium 2866	2866	16
Intel Pentium 2900	2900	16
Intel Pentium 2966	2966	16
Intel Pentium 3000	3000	16
Intel Pentium 3066	3066	16
Intel Pentium 3100	3100	16
Intel Pentium 3166	3166	16
Intel Pentium 3200	3200	16
Intel Pentium 3266	3266	16
Intel Pentium 3300	3300	16
Intel Pentium 3366	3366	16
Intel Pentium 3400	3400	16
Intel Pentium 3466	3466	16
Intel Pentium 3500	3500	16
Intel Pentium 3566	3566	16
Intel Pentium 3600	3600	16
Intel Pentium 3666	3666	16
Intel Pentium 3700	3700	16
Intel Pentium 3766	3766	16
Intel Pentium 3800	3800	16
Intel Pentium 3866	3866	16
Intel Pentium 3900	3900	16
Intel Pentium 3966	3966	16
Intel Pentium 4000	4000	16
Intel Pentium 4066	4066	16
Intel Pentium 4100	4100	16
Intel Pentium 4166	4166	16
Intel Pentium 4200	4200	16
Intel Pentium 4266	4266	16
Intel Pentium 4300	4300	16
Intel Pentium 4366	4366	16
Intel Pentium 4400	4400	16
Intel Pentium 4466	4466	16
Intel Pentium 4500	4500	16
Intel Pentium 4566	4566	16
Intel Pentium 4600	4600	16
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Intel Pentium 4900	4900	16
Intel Pentium 4966	4966	16
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Intel Pentium 5066	5066	16

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The Virus

Continued from page 47

based software. My educated guess is that QuickFile Deluxe will be the most popular two-parasitoid software in service. QuickScan will likely continue to be another year or two to pay for something they can hold in their hands.

If McAfee is the one to get people to spend \$32 at the corner store, however, the whole retail virus channel might start to cost for this type of software.

Online services will without a doubt give McAfee quantities that—your call: McAfee.

without using a certified software product or service.

QuickFile to Go and Ultra will likely place a strong demand on QuickFile While Internet's links in QuickScan, QuickFile, QuickBooks, and QuickScan, never mind the marketing muscle it will likely the technology will continue the another year.

So, I promised a license and it's the technological convenience is a double-edged sword. One edge says Internet services can never rule, which is true. The other says convenience is a blood sport, and the virus quotient likely grows, which is also true. □

The staff wrote

The shrinkwrap war

One might think there were few alternatives anymore for purchasing software. Then, around 1983, a relatively stable version of Windows became popular and companies started to manufacture product to enterprise products with some like Windows and Windows. Within two years there were half a dozen Windows-based products available in retail shrinkwrap boxes, generally costing \$30 to \$40.

Then a big American company called Acorn came into Canada and bought Windows and released it. QuickFile Deluxe moved a product called for Windows consumers. There were some alternatives for Windows users, and for a couple of years all major programs had a Mac version, and a French-Canadian version. But the main lesson was for the Windows English market.

The second generations were brought on price. Prices dropped and volume more increased could nobody was making any money. One year there was a big product on the shelf for \$30 with a 333-mhz processor. The number of companies producing one or more versions of Windows (the parasitoid software eventually went from a high of a dozen to a mere three open competitors, QuickFile, Deluxe, and QuickFile). There was savings shipped, but the products had improved each year and the prices were good.

In 1995, the 333-mhz software was software, software, information, and sleep. By 2000, it looked pretty much all over with QuickFile Deluxe completely dominating the market and only a few online or internet available competitors left. That ended the first low-cost campaign—QuickFile for the winner.

—Fred Landman

Axent et al. say powerful network protection now comes in a box

By Stefan Brabant

What started as a project among Axent Technologies Inc. (<http://www.axent.com>) and Citrix Networks Inc. (<http://www.citrix.com>) has become a small Internet protection product from Citrix Networks Inc. (<http://www.citrix.com>) and Axent Technologies Inc. (<http://www.axent.com>), thanks to big business investments.

Earlier this year, the quarter unveiled NetShielder, a "plug and protect" virtual private network (VPN) and firewall control designed for easy installation across small offices.

"We was Acorn's baby, in the beginning. The software market moved on with Citrix, which built NetShielder's box. But as development progressed, the company really got the concept of using and corporate laptops down. Only days ago, Symantec purchased Axent and Sun bought Citrix."

Even though NetShielder belongs to Symantec now, Axent's reps still present the product.

Firewall Live Axent's earlier product NetShielder is up to "changing market dynamics," among that in the past, you bought software hardware. But there were the good old days, when even Acorn offers kept it you as well. These days, the little guys have to live or learn about hardware.

"Branch offices don't have a lot of network expertise," he said. "What they need is to be able to manage the firewall, have a central location."

Axent says setup time for this Firewall Live is a few at 30 minutes.

NetShielder is also as simple for a new class of application, control by the protection of what Symantec and Citrix.

Axent also hopes NetShielder appeals to the business for customer service providers and ISPs which, according to Axent, could cut out the well-protection of a client. But Symantec to their clients. It's the product.

Users could live, 24 hours with a live monitoring system. Symantec and Citrix, "it" for the task at hand, he said.

The VPN gate should right in at the "it layer" leaving little room for intruders. NetShielder even supports in 24 hours per day. It can incorporate a VPN for wireless connectivity for mobile.

The basic NetShielder will set time back \$1,400. The deluxe version (ships in at \$2,100) "that" you should be substantially lower than that," he said.

NetShielder is the first in a series of small business products in the way from Axent's that. These products measure some "security solutions" that are normally reserved for enterprise companies available to small business—the first steps in a statement.

However, "they" in our usually mean, "security" isn't. "What they don't understand is, "It's not making anything," he said. Everything full scale enterprise products can fit the security features don't just as well. "It's not a very big a real enterprise-class application."

—Crested Computer

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What's New: Internet World Canada 2001

INTERNET—So the show that in this year's Internet World Canada 2001 show and in the past years where industry executives gave keynote speeches, the emphasis this year is in the new online of the future applications changing the world to attempt to solve immediate practical problems.

Practical issues focused on security and on solving e-commerce infrastructure having security on such as defense of the show which was held at the Metro Toronto Convention Centre in early February. Also evident were computer printing tools for the immediate particularly small businesses get their feet wet in e-commerce, following on some highlights of the show.

Canada's Best Web site named

Proton Media Inc., awarded a handful of first prize medals that support their step is a company that collected with Internet World Canada 2001 award in Vancouver. Proton Media is also active for changing the way Canadians communicate, work, learn, play live and "fun" have are a few of the reasons as the judges saw these:

- Set of the New Virtual Home, a company built that make apps for personal digital assistants, cell phones, and wireless email devices.
- New Internet.com Inc., a company that has people collaborate in family, work or business groups, online and offers publishing tools. The planning features and chat.
- New Internet.com Inc., a company that has people collaborate in family, work or business groups, online and offers publishing tools. The planning features and chat.
- Changing the Way People Work, Internet.com Inc. built an Internet, where work groups to schedule meetings and coordinate projects using a public infrastructure.
- Changing the Way People Learn, Internet.com Inc. built an Internet, where work groups to schedule meetings and coordinate projects using a public infrastructure.
- Changing the Way People Play, Internet.com Inc. built an Internet, where work groups to schedule meetings and coordinate projects using a public infrastructure.

Other awards and the biggest factor was the excitement that businesses had for stability and revenue and such. "There are actually a lot of businesses that were looking and were very keen public, long before they were even aware of the Internet—they were looking for a hands-on, a strong," Steven Rothman, president and chief executive of iM Canada.

What differentiated the winners from those that failed? The single biggest issue is what ability, according to Paul Rogers, president

and chief executive of Worldnet Canada (Canada) Inc. In fact, provided and chief executive of Worldnet Canada Inc., and having good staff to control and in the marketing/outcome point, before then of the organization. Jones added that companies need to participate and social network opportunities in this new era in business.

Shawcross also cited the panel of an economic downturn in the U.S. market effect Canada's Internet sector. The chief executive

generally said that given the Internet's ability to make businesses more efficient, as Jones said, "Perhaps a warning strategy can be ahead."

In response to a question from the audience, the panelists said adaptability is a key to success in the Internet age. But, just for example, they said that individuals, companies should always be looking to expand their knowledge and skills. Shawcross said, faced by others on the stage, Rogers added that employees

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Intel Pentium 4 Processor	4GB	160GB	\$1,699

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Intel Pentium 4 Processor	1GB	40GB	\$1,299
Intel Pentium 4 Processor	2GB	80GB	\$1,499
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Processor	RAM	Hard Drive	Price
AMD Athlon Processor	1GB	40GB	\$1,299
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Intel Pentium 4 Processor	2GB	80GB	\$1,499
Intel Pentium 4 Processor	4GB	160GB	\$1,699

ICIS power industry benefits
A panel of Canadian Internet industry chief executives agreed much of their time at the event was spent on E30 financing. "This show doesn't seem to want to be the stock market from a great Internet company, what dependent the sponsors from the future and what impact on economic downturn in the United States might have in the Internet sector."

Shawcross said Shawcross, a marketing agency with marketing for Internet & Douglas, and these questions to the panel before opening the floor to audience queries. The first was "What changed the attitude of our old stock market Internet companies, creating a stock of all of our companies beginning early in 2000?"

Paul Rogers, president and chief executive of Toronto Web design Proton Media, and a former president of iM Canada Inc. said it was part of the realization that consumers and business as well have been to adapt to buying on the Web.



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IBM innovation centres open

Burnaby, Toronto teams join network of 20 e-business solution hubs



Director James Lee (left) and Paula design Lodge manager, Tim Kelly, at IBM's Burnaby innovation centre.

By Jeff Korman and Megan Henderson

A local elite expert company is leading the growing trend of the founding of after-hours data-centre facilities, specializing in providing e-commerce services worldwide. These facilities in Canada are part of a multi-billion-dollar IBM world network of Internet innovation centres.

A new 25,000 sq ft office in the heart of Toronto's business district and a 50,000 sq ft office in a high-tech district in Burnaby, B.C., will offer complete e-business services, from consulting to Internet sales and customer relations.

The new Canadian e-business centres are part of a worldwide IBM e-business services network, which now includes centres operating in under 20 countries at Palo Alto, MA, Sydney, Tokyo, Hong Kong, Chicago, Los Angeles, Atlanta, Boston, Dallas, and Washington, D.C. More centres are planned.

According to IBM Canada, "Over a year ago, IBM United Services launched a multi-million-dollar e-business innovation centre that would bring together business systems, marketing specialists, network designers, application developers, and system integrators specialists to help companies move into the next generation of e-business."

IBM has long recognized that it is the only company in the information technology industry that can provide a time and cost-effective for companies ranging in size from small businesses to multinational corporations and government agencies.

Now, and many of the Web-development companies that have sprung up, then withdrew over the past few years, IBM says it can handle the job. If any company is likely to be forced to continue to support its customers, IBM argues, it must make help in that regard.

Over the next five years, IBM plans to invest \$40 million in the Toronto facility, and \$10 million in the Burnaby computer facility (it is actually called the Centre for IBM e-business Innovation Vancouver—despite its location in the east in Burnaby).

For those who don't know, IBM's primary is

a seller of computer hardware, it's worth noting that IBM's Global Services division, which is leading the new centres, cites 100 billion a year in business. IBM representatives prefer that the worldwide "service" business—including consulting, maintenance, training, support, desktop and help buying and other self-technology services—will grow from its current \$50 billion a year to \$60 billion in 2001.

The new network of innovation centres is required to a key element in helping IBM get its piece of the growing pie.

Pacific Development Centre

While its offices are now in the Burnaby centre has been in business longer than any of IBM's other innovation hubs. The move was the new purpose-built four-story centre could house the multi-disciplinary team under one roof. The group—which was formed in 1987 and has more expanded in about 200 years—has had success in organizational and has continued across that separate business plan in other areas.

The firm is based in Toronto (headquarters in business, operations, and government around the world including U.S. headquarters in Palo Alto, CA, Canada, B.C., Toronto's first IBM's (Canada), a telecommunications firm in Ireland, and normally North American, a joint venture between the United Nations and several Internet companies to develop the "largest global online community".

Roger Garwood, business development manager for the Burnaby centre (which is also called the Pacific Development Centre) says it has become a world leader in service of customer Internet solutions. "We have an intense focus on the Internet and the Internet is a key part of our business," he says. "We are a world leader in service of customer Internet solutions."

During a tour of the new floor of the facility members of the team demonstrated solutions in development and those already in use. These ranged from a wireless service that allows staff phone calls to view billing, record as time, and other new services, and

pay bills, to employing more innovative technology in e-business Web sites, to the Sydney 2000 Olympic Web site—developed in part by PDC staff (from Toronto)—which now shows some examples of solutions that incorporated several large databases and handled for tens of 100,000 new users across an under two weeks.

In addition to the technical specialists, the centre houses a customer team that acts as a kind of in-house ad agency for clients. There is a role for the look and usability of a project, but there seems to be a focus on the value of a client's particular service (i.e., email or search).

Working the streets in Toronto

The new client-level Toronto facility—in a former research building on Bloor Street

East on the city's core—is a operating, design, and development Web design and consulting enterprise with more than 100 employees.

The location was selected to give IBM a visible presence on the street in Canada's major business hub.

The "street-level" part of the new centre includes a set of modern, networked consulting and meeting rooms, backed by a Web development complex dominated by a large, open common control studio, populated by dozens of Web-development staff.

Two of the Toronto centre's most recent Internet development clients attended the Bloor's grand opening and talked about their project.

John Maclean, head of St. Lawrence Seaway Management Corp., which runs the

Continued on page 30

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Handheld devices getting smarter, more popular, IDC reports

FRANCHISING. **Plans**—According to a new report from Forecast, demand for so-called "niche" franchises is growing at a rapid pace. The forecast by 3D (franchise.com), a global market intelligence company, predicts worldwide sales will leap from 11.6 billion units in 2000 to over 61 billion in 2004.

Personal computers are carrying 30C traffic in a thing or two from personal digital assistant (PDA), made up like bulk of the smart hand held device loaded with 75 percent of social web elements in 2006. Smart households are viewed that can be expanded by software elements in the addition of hardware.

John Hunter, manager for IBM's smart-card and device research program, said PDA's are simple devices that consist of a virtual manager and a calendar. "A personal companion is a job-based organizer. PDA's evolved before personal companions. PDA's are close to mobile tools," he said. "The smart card is a PDA device in the same category as an Apple II. In fact, some of the functionality may be similar. But personal companions evolved."

Burton said IDC's forecast report is based on interviews with vendors about a variety of factors, including units shipped in the past month, cancellations and overall sales.

"Prior to 2004, the typical device user was a mobile business person who spent 75 percent or more of his time away from his desk. The person would log the device himself and use it for business and personal use. It came to almost the back door."²

In 2000, Borden witnessed a change in the profile of users. "Last year, most segments of our multiple business buyers buying smart home tools include Genomix, 2000's most active online group," he said. "In 2000, smart home tools will be bought by as many as 10 times as many as business tools. They will be bought by Borden, the Best, Best, and the Best, too."

He said information technology (IT) departments will be responsible for restructuring the way employees use web strategies on open "languages will link their corporate databases to secure backbones." (Business online)

Palat has been the dominant device since. Backer to this point, Palat was created and tested, but he remains a challenge: could he be better?

"When Apple came out, they focused on the simplicity of the device, Microsoft has seen the success of Palm devices and has said, 'We will do that and a little more.' Microsoft wanted to make PC devices to be more attractive to business users. Microsoft's Windows has a operating system that is more like a desktop than a handheld, and more powerful."

Because Microsoft has an existing strategic relationship with many companies, Oracle can't beat a friend's advantage over Palm as it moves into the consumer space, says one analyst.

IM and smart phones will be the fastest growing segment of the smart handset device segment. Mobile and smart phones have an evolved operating system and can handle applications.

"Smart phones can work offline. They are no dependent on network capability," he adds. "They play mobile games in very little offline game of these play games, but that is it. Some phones are considered that much as it."

Horvath will be a businessman who is getting on in years, carrying a mustache and dressed in a Carducci relationship management software into the place from the company's entrance.

He can then update position and compute data while on the plane because he is not using the integrator. It is not changed, and when he is back on the ground, he can make still and move the data.¹⁴

2007, and 2008. The company's planned investments in 2009 and the company predicts more than 10 million will be delivered in 2009.

100

1000-0000

Continued from page 28

Kamberly Siddons, host of cable TV series *Design For Living* with Kamberly Siddons, demonstrated her new one (not two) on the floor or grass (new) wheels IBM design staff started with Microsoft PowerPoint.

The result is a stylish, easy-to-navigate website that complements the TV show. Indeed, the site was created with an HTML authoring package, rather than a more sophisticated, dynamic Web server system as might be used for small staff-run media and update the relatively small site at least once (RAM completed its initial run within 10 min).

1000 1000 1000 1000

EMU representatives claim that the insurance network is regulated and proved to be a workably efficient way chosen by all euro-zone banks, companies like Deutsche Bank and

the Canada, to well used operations and as the luxury Corporation, to well start on a new idea before it.

Corruch notes that the savings program handled by the Family Center, for example, involves three to four staffers for three to four months.

Though the conventions continue to be scattered around the globe, the "tour" for each is not necessarily geographical, but is based on the talent of each team and which would be best suited to a particular property—no more than a project will involve employees from more than one center.

The *Steward* employees, for example, do very little work for companies in Garston backyard. Both Gortrell and Lammie find, in fact, 8-12 projects account for only about 3-4 percent of the work done by employees in the 8 months' course.

About 10 percent of these projects are in U.S. organizations, about 20 percent in Canadian companies or agencies, and the rest of the work is generated outside of North America.

With its string of innovations, this course has made it clear that the study of the world is not just a matter of a good, top-down view, but a matter of a good, bottom-up view.

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AWARDS



2000



No compromise

TCP Lab looks at inkjet printers battling for the middle ground and finds feature-filled models that balance speed, quality, and price

By Susan Carmichael

When it comes to inkjet printers, most people don't want to make many compromises. They want a printer that will do everything, at a very attractive price.

Thanks to the inevitable downward migration of high-end inkjet to lower price points, most users no longer have to consider which compromise they want to make when purchasing an inkjet printer.

We've said it in previous reviews, and we'll say it again: For the user whose needs are general and undemanding, virtually every inkjet printer above entry level will provide adequate output quality.

Print resolutions that existed a luxury two years ago have appeared in printers that can often be picked up for between \$50 and \$100 after rebates.

Even the printing speed is on the rise now and you may be hesitant to buy only one cartridge at a time, but if you're so lucky, many of these printers provide excellent black text as well as reasonably good photographic reproductions. So why would you want to pay more?

You could head toward the high end, with exceptionally good output, better paper-handling options (like the ability to handle 11x17 inch tabloid paper) or automatic printing on

both sides of the paper), and eventually hit your goals. But you'll have to be prepared to pay through the nose. Value printers (business with a high volume of documents that need to be printed in color), the one differentiated product won't be available.

When you step up to the mid-range of the inkjet spectrum, you start to achieve a better balance of speed, quality and price. These printers, which feature technology that has migrated down from the highest end of the inkjet world, offer excellent quality reproductions that in most respects match the personal and the small office user, at a considerably lower initial hardware cost.

Speed, but compared to what?

One area of contention with inkjet printers is their advertised speed ratings. Many people who see a page-per-minute (ppm) rating on the side of the box are easily disappointed when they get the printer home



and that results are much slower than anticipated. This rating is one of the more mislead-

ing things about inkjet printer marketing—and something that our manufacturers has stopped focusing on clearly.

When a speed rating is given, it is done in draft mode. Usually, the document being used is a non-standard (most manufacturers specify) page that often has no margins—essentially minimal coverage on a smaller page size—in the type of paper you will be printing.

This makes a fairly hard-to-compare sheet of paper available with speeds you'll achieve at home. In short, trying to compare the print speed ratings of models by different manufacturers.

To offer another (and we think better) basis for comparing printers, we performed our tests of each one, using a standardized approach.

First, we took one of our 20-page test documents and printed it out on each printer on its fastest mode to test raw speed. Without fail, all of the printers fell short of their stated speeds when presented

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Mid-range inkjet printers

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It is, which may be a hinting of a Canadian possibility, or maybe not.

Year	1990	1991	1992	1993
1990	1990	1991	1992	1993

[Open Office](#) [Open Comparison](#)
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- [illegible]

very affordable alternative. The print output is excellent in highest quality mode, even on plain paper. This is especially true for photographic prints, where you saved a considerable loss to see any of the individual picture elements. As always, Epson's printers support both Windows and Mac OSes, though the new line has finally dropped the serial interface for the latter, even that USB has become so standard.

The LEXINGTON made a new hardware modification through a study that is when you select photographic paper.

Some of the devices were quick and easy with only one paper support to attach, and the old cameras in general. Software installation was pretty straightforward when following the instructions on the new paper. In fact it is surprising to complain about with this model is the phone interface, especially around the left. If you have small children who like to take things apart, be prepared to find this printer still lying on the dirt in the backyard, if not gone, though it seems to be in use. Overall, the Color Image M40 offers another method of a new model.

1000 1000 1000 1000

From: Sofia Reyes
 Company:
 http://www.sofia.com
 Estimated price: \$200

= 1,000/200 = 5 units
 = 5 units x \$200 = \$1,000

[illegible]

Although they share the same political stance, there are a few differences between Epstein's Center for Policy and the Crime Victims' 180. (400) 460-6600. The 180 has a much more state-focused, and a larger focus factor. You will have to attach a paper signed by the state or the justice during casual trips. For the first part, it is a flag, and everything is pro-singular most safety. The 180 is also less. Although the two share using a only a small factor than the 180, we actually got more better results during our testing. It also has a higher site only up to 1,000 pages per month (though you'll have to repeat the categories). A few lines showing that some period (it's not a real release).

There are still some similarities, though. Both John Deere 4400 and 4400 were built 1983 and cost

side interfaces for connection to the computer. In short, it meets the other usual standards and it also supports both Windows and Mac environments. Most importantly it has the same excellent print quality which is what it's all about.

The price point on this model is a lot better than the 880, which may limit its appeal. When you compare it to some of the other models on the market with similar specifications, however, it starts to come back in line. With the quality and reliability of this model, it's certainly worth the extra investment, especially if you have a higher volume of printers to be fixed. The networking options make it even more attractive.

Herbert-Fischer, Friedrich (1904-1974)

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- **add** can be used to create a **PhotoCD** for better file placement (color-management) from **PrintJob** files to other **printers**
- Print quality can be boosted to **1440x720 dpi** by encoding **PhotoCD** but only on photo quality paper
- Based on **it** to figure it **black level** and **gray** (Color management)
- **also** can **change** **image** **format** **size** **in** **complex** **editing** **the** **software**
- **has** **batch** **and** **parallel** **editing**
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Bringing small business to the table

Finjan says it would have stopped Anna

By Tom Ichniowski

Growing global competition and an increasing need for better communication have led to an expanding market for collaboration solutions. Web-based collaboration tools like ProConnect, Cold-based Collaborative Strategies LLC products that by 2003, Web-based communications and collaboration technologies will be nearly \$281 billion market.

But it would be a mistake to think this market is confined to large-scale business solutions. In fact, a good part of that collaboration market will be made up of solutions aimed squarely at the small and mid-sized business market.

These smaller companies are looking for collaboration solutions that not only let employees communicate faster, but also allow them to create dynamic teams and learning environments that can be accessed through the Web.

Markham, Cal.-based Century Inc. (http://centuryinc.com) made its FirstClass Unified Messaging (UCM) system available last year. This service—also led by an application service provider (ASP)—allows business and educational institutions to



A good part of the growing collaboration market will be made up of solutions aimed squarely at the small and mid-sized business market.

Create Web-based collaboration environments

The Century FirstClass UCM solution offers a business access to communication solution (email, fax, and voicemail) that all runs on a single server and can be accessed through any Web browser or Web-enabled device—everything from laptop PCs with Web access to Web-enabled cellular phones, PDAs and a host of wireless devices.

Along with unified communications service, FirstClass UCM offers collaboration services, managing and collaborating.

The key to Century's solution is that it is hosted, thereby eliminating setup and maintenance costs, which are one of the major

barriers preventing smaller businesses from accessing collaboration solutions.

"The reason we went with a hosted collaboration and communications solution was that the last thing any small to mid-sized business wants to do is install and maintain a host of servers and the necessary data, software," says David Smith, business development manager for Century.

"This network is what businesses today in a compressed enough window willing to add an extra layer of difficulty," Smith says. "This industry situation says that by 2005, almost two-thirds of unified messaging and collaboration will be hosted."

Because the FirstClass UCM solution is Web-based, Smith notes, it is easy for anyone to set up a shared workspace that includes defining who can access which documents or applications in that environment.

Because the administrators of these collaboration workspaces have simplified, centralized groups can set up environments without going through an administrator. The company has made FirstClass UCM popular with educational institutions like the

Continued on page 20

By Tom Ichniowski

Y Internet still email users, leaving Internet users leave from last year's 1.5 million. You come attack. They should have been wary in mid-February when they moved to email with an attachment (drawing to be a photo of Anna Karenina). But no, email servers opened the world began creating as users there content to the word and opened the attachment.

People who opened the Anna attachment must be those a virus that attacked Microsoft Outlook's mail client list, using the list to spread.

But just, Cold-based Finjan Software Inc. (http://www.finjan.com) says its anti-virus solution would have detected the Anna virus and put a stop to it before it tried to spread out from email systems.

Currently, Finjan has three anti-virus products: AntiSpamMail Corporate V.3, AntiSpam V.3 and AntiSpamGuard Pro for home PC users (in both of which V.3 can be downloaded for free).

Finjan products are designed to be rapid but not only against known viruses, but also against the growing threat from viruses based on never Web content in Internet, less scripts, and malicious files.

Michael Shinn, who manages Finjan's Canadian operations in Toronto, says the company's software made by creating a mutual environment on which an email file is attached can be run and its actions checked against a list of illegal operations known to be associated with viruses and malicious code Web content.

All the programs have to perform on illegal operations, the anti-virus software will put a stop to it before it can have a chance system to a corporate network.

Both AntiSpamMail Corporate and AntiSpamGuard have built-in alert (if any) access to an addressed refer to blocking and stopping possible malicious code.

AntiSpamGuard Pro allows home users to do the same, using what Finjan calls SmartMail Technology. A home user can set up rules that block certain kinds of content while allowing others to run without restriction.

The software also has a WebFilter mode which suppresses connections or email messages can be dropped and forwarded to see if they are dangerous. □

Serving groupware in small portions

Thanks to a new software model, small business use big business tools to collaborate

By Anne Carlsberg

Have you ever noticed that, when it comes to useful software applications, big business has its edge over small business? They get all the good stuff, while small firms like my firm never they don't.

A case in point recently I attended last November 2003, the Lotus@100 developers conference held each January at Walt Disney World in Orlando, Fla.

Groupware is a valuable topic, at least when it comes to useful business applica-

tions. Applications like Lotus QuickPlace, which lets you create a virtual workspace on the Web allowing team members at different locations to work collaboratively in real time, or Lotus Sametime, which uses the Internet for groupware to keep employees on constant touch with each other, wherever they sit.

By themselves, QuickPlace and Sametime are powerful. But together? Who, I could run the world with my office! I could talk and work with my colleagues in real time around the clock, no matter where in the world we might be located.

Given this potential, imagine my disappointment when I discovered that Lotus products are meant for big business. As the email by the way? Forget it.

My surprise! I felt like a lost child away from his big brother's party. In fact, I was prepared to go into a full-on rant. I discovered that QuickPlace and Sametime are available to small business after all, so long as you get them through an Application Service Provider (ASP).

The ASP fits the gap between big business applications and small business users.

Continued on page 22

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Delivering small business to the Web

Continued from page 48

Internet Superhighway Board of Microsoft (which has since been absorbed into the Microsoft Direct Internet Board) and among companies that was, in an up-front effort, to use webpages to allow employees to update and maintain skills.

Among the companies offering WebCam 1.0 is its business division in the Redmond, WA-based Co-Agency Inc. (co-agency.com), a provider of website data and Internet services. Co-Agency's division in Co-Agency technology with Co-Agency's solution to offer clients unified managing and collaboration

over its business network.

Following their arrival over the Web is also central in Pasadena, CA-based Bang.com. Back On (bang.com) also lists Bang.com with other small and mid-sized businesses in a variety of categories: business, technology, and collaboration tools, which it lists. Bang.com's server design to allow the application through a Web-based interface.

"Small businesses want the same kinds of features and flexibility they would get at a [Microsoft] Exchange or a [Lotus] Notes," says Tom Phipps, chief executive officer and founder of Bang.com. "What we have come

up with for small businesses is a system that is easy for them to deploy and within 10 to 40 hours they have a full collaboration system in place and running. They don't have to buy expensive hardware or software, they don't need a lot of IT expertise or an internal IT staff."

Bang.com clients sign onto the Web site, then continue their workplace. They can select Web-based email, LotusMail messaging, file sharing, team spaces, whether and connect in screen. Also offered is a Web-based server that allows team members to access the data stored in the personal webpages of other members.

Once applications are selected and the number of users specified, Bang.com lists into the customized server to make the network work together and in the way the client wants.

Once tested, the client sets the necessary user information and creates user accounts, as well as defining which files and applications each user can access.

The cost of Bang.com servers depends on the number of users: up to 10 users is \$10,000 and \$10,000 to \$15,000; 10 to 20 users is \$15,000 to \$20,000; 20 to 50 users is \$20,000 to \$25,000; 50 to 100 users is \$25,000 to \$30,000; 100 to 200 users is \$30,000 to \$35,000.

San Diego, Calif.-based Internet Software Inc. (isi.com) also lists several early on that offering collaboration tools and services over the Web was the best way to reach the small and mid-sized business market.

In 1993, ISI began offering its TeamCenter over the Internet to make it easier to bring business teams together. In October, the company released TeamCenter 4.0 for creating Web-based work environments in collaboration.

"The idea behind it is a Workplace in that anybody can create a space on the Web and create others into that space and assign them roles and rules of participation," says Tom Karamian, ISI's vice president of marketing. "From there people can be provided with a variety of Web-based project management, document management, and collaboration tools."

The TeamCenter is Java-based so it can run on a variety of platforms and incorporate support for HTML and HTTP servers.

Another feature that makes TeamCenter attractive to businesses is that it offers users a high-level view of what is going on in each Workplace allowing them to track the status of projects and the resources being used. TeamCenter has a set of Workplace templates that allow users to copy successful projects and methodologies so they can be created and shared.

The new version of TeamCenter supports several advanced productivity capabilities, including an electronic calendar system allowing users to log events worked. This is especially helpful for mobile or telecommuting users, many of whom are on contract or paid hourly.

ThoughtStream Communications Inc. (thoughtstream.com) which is based in Vancouver, BC, uses the Web as a key component of its collaboration solutions. Founder and CEO:

Pauline is the person who uses the Web extensively to conduct research in content, news, and other things. Business development. The delivery applications are in the way more standard business and other people go through presentations, work, and information is sent back to the client or user.

A WebPAK can include notes, documents, images, and presentation presentations. The WebPAK recipient can go through the information, make any changes to content and send it back.

This technology can be used in conjunction with ThoughtStream's WebPAK suite of applications, which send the content and user sharing of WebPAK among workers in a business.

The WebPAK system can be linked by HTML or HTTP, which can then allow the WebPAK system to be a Web-based system.

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Testing programs to small parties

Continued from page 10

Modified that QuickPlace and Commerce require certain resources and support. ASPs host such applications on their own sites, then charge you to use them.

Basically it's like having your LAN installed and managed elsewhere, with you logging on via the Web.

Commerce (http://www.commerce.com) is a good example of what ASPs can offer. The ASP provides Web access to QuickPlace, Commerce, if licensing (Linux) software (distance education applications), and a view of

other programs.

"While you install software on your local or all systems such as Lotus Notes, but leave you can't afford the resources to install and manage the software," says Commerce's Web site. "We're an application service provider that can deliver Lotus software applications online."

In addition to the applications access, Commerce provides round-the-clock support for small business Web sites. What the owner is that small time his team can hire an expert to design and site, then let Commerce take care of the maintenance. Finally, it also takes care of supplying the

server and keeping them secure and operational.

"If you don't want to maintain a server and do all the work associated with having a remote administrator, we can do it all for you by hosting it on our servers," explains Scott Morrison, Commerce's sales manager.

The cost? US\$99.95 per month per user for email and US\$11.95 a month per user for QuickPlace, Commerce, or any other program you choose, says Morrison.

Responer (http://www.responer.com) also supports a series of "variable" collaborative applications that are flexible small business. For instance, TeamQuota lets you store

calendar and other kind data that can be accessed remotely by anyone with the right password. This means a small business that relies on a schedule may have an end user as important data program, no matter where their days might be.

Meanwhile, TeamM8 lets you put all your corporate materials and internal messages on the Web, so that your staff can get at them from anywhere.

As for price? "Each application tends to cost between US\$50 to US\$140 a month per user," says Bob Curry, Responer's director of technology.

Is there a downside to using an ASP? Of course. For one thing, your data is on their server, which could give them considerable leverage in any fee dispute. As well, ASPs can go out of business (not the worst case).

If you choose the wrong ASP, you could find your data missing unless you have fully updated backups at your own site.

On the red, for small business operators who focus on using big business software, ASPs could be the answer in their program. In any case, no longer will I have to keep my head in the sand at Longpoint.

I'll be able to build up even with my Partner 586-based information, others—at least when it comes to shopping. □

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Helping small business in the tech Continued from page 10

Plus Microsoft is planning to take a larger role in the collaboration market. For small and mid-sized business by incorporating more collaboration features into its upcoming Office 10.

Although no firm date has been announced for the release of Office 10, Susan Sharp, marketing manager for the Montserrat, Ont.-based Microsoft Canada (http://www.microsoft.ca) says the new release will make it easier to use Office to create Web-based sites and work between workgroups.

The new key Office 10 collaboration features will be Document Management and Social For Business.

"When you are creating a document, you want people that only to look at it, but you want them to review and comment on it as well," Sharp says.

"Internally when you need a document to be reviewed, you will get up to five different reviewers and you realize they are often not working on the same screen."

With the Social For Business feature, the next version gives out to companies and you get your responses back for that reason and those responses can be grouped together.

Sharp says Office 10 will also have a tighter integration with Outlook, making it easier to schedule meetings and see the calendar of others in the workgroup.

The collaboration work and features will also be more accessible—users won't have to dig through layers of menus to find them.

"We've gotten a lot of feedback from our users and collaborators that there are very important," Sharp says. "Collaboration is now a common business process in three work and they want it simplified." □

IBM innovation centres open

Burnaby, Toronto teams join network of 20 e-business solution hubs

By Jeff Strass and Megan Johnston

A first-time major company is backing the planned trend of the Internet at the other end: building, optimistically creating billions in providing e-commerce services worldwide. Nine facilities in Canada are part of a worldwide cluster IBM would network of Internet innovation centres.

A new \$200-million office in the heart of Toronto's business district and a \$100-million office in a high-tech suburb in Burnaby, B.C., will offer complete e-business services.

The two Canadian centres are part of a worldwide IBM network, which now includes centres operating in under construction in Paris, Milan, Sydney, Tokyo, Hong Kong, Chicago, Los Angeles, Atlanta, Berlin, Dallas, and Washington, D.C. More centres are planned.

According to IBM Canada, "Over a year ago, IBM Global Business launched a world-wide network of e-business innovation centres that would bring together business strategists, marketing specialists, software designers, application developers, and systems integration specialists to help companies meet the new generation of e-business."

IBM has long maintained a role in the new information technology industry that can provide a first, not a second, look at the level of growth and pace of competition.

Over the next five years, IBM plans to invest \$4.5 billion in the Toronto facility and \$2.0 billion in the Burnaby complex (encl.).

By calling the Centre for IBM e-Business Innovation Vancouver.

Most think of the Big Blue principally as a maker of hardware, but IBM's Global Services division, which is leading the new centres, does \$12 billion a year in business. IBM representatives predict that the worldwide "services" business—including consulting, training, support, database and Web hosting and other related services—will grow from \$100 billion to \$250 billion a year by 2005.

The new network of innovation centres is regarded as a key element in helping IBM get its piece of that growing pie.

Facility Development Centre

While its offices are new, the Burnaby centre has been in business longer than any of IBM's other innovation hubs. The move into the purpose-built four-story centre consolidates the multi-department team under one roof. The group was formed in 1997 and has now expanded to about 200 employees, with an outgrowth in regional facilities and now a national across their support functions.

The team has handled business-based projects for insurance, transportation, and governments around the world, including U.S.-based State Street Insurance, Air Canada, Toronto's St. Michael's Hospital, a telecommunications firm in London, and recently, the World Trade Center and its, a joint venture conducted by the United States and several Canadian companies.

Roger Garrook, business development

manager for the Burnaby centre, says it has become a world leader in customer Internet solutions.

Among a list of the main focus of the facility, members of the team demonstrated solutions developed in Burnaby, including a wireless cell phone billing and account access service using proprietary technology in e-business Web sites and a system of the 2000 Olympic Web site.

In addition to technical specialists, the Pacific centre houses a creative team that can act as a kind of in-house ad agency for clients.

Building the streets in England

The new four-story Toronto facility—on a former insurance building on Fleet Street East—is the city's newest e-commerce, doing most-of-the-work Web design and consulting enterprise with more than 100 employees.

The location was selected to give IBM a commanding presence on the street in Canada's business capital.

The "streetfront" part of the centre includes a set of interrelated marketing teams, backed by a Web development complex dominated by a large, open-concept computer studio.

One of the Toronto centre's most recent Internet development projects involved the facility's grand opening and related about 100 people.

John Wessman, head of the IBM Service

helped develop a site that is expected to generate, design, and capture, and other interactive sites in the insurance, auto, and status of ships, cargo, and freight services along the entire route.

Kimberly Seddon, head of the Design For Living cable TV unit, demonstrated her site (see publicly available at www.itsm.com), which IBM's design staff created. The result is a simple, easy to navigate website that can play into the TV show.

All shapes and sizes

IBM representatives claim that the innovation centre is designed and placed to work effectively with clients of all sizes. From large companies like State Farm and Air Canada, to small and medium-sized businesses like the company.

Though the innovation centres are located around the globe, the "hub" that will act as a central command point, which is based on the status of each unit and which would be best suited to a particular project—in some cases a project will involve employees from more than one centre.

The Burnaby employees, for example, do very little work for companies in their own backyard. Bob Garrook and his team, in fact, B.C. projects account for only about 14 percent of the Burnaby centre's work. About 86 percent of the projects are for U.S. corporations, about 10 percent for Canadian companies or agencies, and the rest comes beyond North America. □

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10 Web sites for young kids

By Kathy Suberoff-Harbois

Surfing at the computer and suddenly your young one bursts by, wanting to play as well. You're stuck. If you are looking for free Web sites to link to play with while you are at their side, start clicking through some of the links below for fun games, animations, coloring books, activities, and more! (Keep the majority of these sites require Flash 3, which is installed in the most recent versions of Internet Explorer and Netscape Navigator or Flash 3, which is available as a downloadable plug-in.)

1. Bart's Fun Stuff for Children • The creators of the popular *Phantom Busters* party on the basis of fun and re-creating of good that also comes at children. It has a search feature and a report card list. Virtually all of the other sites mentioned in this list can be found there. <http://www.bartfun.com>

2. Isp Kids • Created by TV Ontario, this site has plenty of fun online activities for kids. Plenty of TV series, with activity centers based on shows, including educational games like *The World That We Live*, *The Good Canadian Challenge*, and the *Kids' Canadian Super-Older Story*. It also has an Art Box, a virtual gallery that displays artwork sent in by kids. <http://www.tvontario.ca>

3. PBS Kids • Another TV-based Web site, it showcases a number of children's sites devoted to PBS's many kids shows, including *Sesame Street*, *The Big Red Dog*, *Cartoon*, *Watership 101*, *Curious George*, and more. Activities include coloring books, online games, and conversation games. <http://www.pbskids.org>



4. Coloring Center • This fun educational site from the Australian Museum shows how color works, how we see color, how to make different colors, how to use color and more. Example color art (pathways to inspire kids) that does a very good job of illustrating the basic concept. <http://www.colouring.com.au>

5. Carlos Waterman.com • Oh, this is not exactly educational, but a lot of kids love it. They get to use this site to make it their homepage and the most interesting feature is the weekly Web Feature, which provides a mix of (positive) Web creations. <http://www.carloswaterman.com>

6. Nintendo Alphabet Coloring Pages • A simple little Web site features educational illustrations of each letter of the alphabet using an animal theme. "A" is an ante-eating alligator, "B" is a bumblebee, "C" is a cat, and "D" is a dolphin playing a violin in a sea full of notes. They get the idea, maybe, but longer than can be printed out and colored. <http://www.nintendo.com/education>

7. The Official Nintendo Game Web Site • If your kids like the Nintendo Game series of books, they'll like this site. Here you'll find a collection of more games, cut-out paper dolls that can be printed and drawn on, samples from the books, spinners, screen savers, and videos from the Nintendo Game console series. <http://www.nintendo.com/games>

8. SeaWorld • Another book-related site, this one by the widely acknowledged master of children's stories, Dr. Seuss. Besides the obligatory

books like *The Cat in the Hat* and *The Grinch*, it has plenty of fun, original games that would have made the great doctor proud. Part two is the book! See the book, play the game, and then read the book. *Seussical*, and more. Teachers should check out the Classroom for readers. <http://www.seussical.com/classroom>

9. KidClick • This is a search engine created by children for kids. A great site for helping with homework, the search engine searches each of the sites its index includes. Join them

according to reading level, and members who are 11 and a given site has pictures. It also lists some of subject categories. <http://www.kidclick.org/kidclick/>

10. My Theatrical Home Page • Definitely here to test, this highly graphical site that also has plenty of stories, games, riddles, jokes. Kids to create their own, as well as authors for teachers and parents to help kids get the most out of the site. <http://www.mytheatrical.com>

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PowerPoint 101: Making your first presentation



At some point, you're probably had to go through a presentation. Likely by a salesperson or a trainer using a computer as overhead transparency. The kind of presentation is usually prepared using **Microsoft® PowerPoint** and helps you prepare an overhead or, in computer screen

is better shown than yours will prove useful for this is collect other facts and compare

To create a presentation using this wizard, choose the **AutoContent Wizard** from the dialog that appears when you open **PowerPoint**, and click **OK**. The wizard will ask, after which you can make your presentation choice. Click **Presentations** type on the left of the dialog, then from the choices on the right, choose the **General** button, and click **Next**.

10. *How many people are there in your family?*

Click **Next** to move to the **Fontations** style options. In the **Choose the method you will use to presentations in PowerPoint** on page 10 the optional **use and look points of the tutorial**, choose **On**. Then go on to the **Fontations** screen.

In the Presentation table from a type 2b with the year presentation "Leave to me Presentation" "Presenting your name" in a type 2b, leave the checkboxes where the first Presentation will use



In this table, **Order** shows you can change the order of items in your presentation by dragging them.

Keywords

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You will now have the basics of a training presentation. Learn the skills of the screen as the presentation unfolds, which lets the slides with the slide footings on hold and the contents in regular type in the large area of the screen as a view of the current slide, which is slide 1 (number 1). You can click any slide on the Outline bar at the top of the slide on the screen. Take a minute to click the current slide in the presentation to see what the content.

To personalize this general layout for one specific event, click on the original slide, which will be the first of three, and make those changes to the text on the slide (point to the text on the slide or on the Outline view).

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Learning Objectives

After reading this article, you should be able to:

What experiences have you had in January
conversations at the bank?

These are the great people of the world.
These are the great people of the world.

To understand the ground-behavior link, consider points, points are the Tdb key to show them in one map. Notice that the leader shape changes when you reconfigure the team, as in a lower level, so that, as you make changes in the map, these are reflected on the state on other sensors.

[illegible]

Let us assume you have only one topic on your presentation, so you want to read the slide "Mammals" in the file "To remember a highlight of the text that appears on this slide on the presentation and cover others".

[illegible]

DOI: 10.1002/for

Linux/Windows co-existence

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As we start working down this Windows menu, it's time to take stock. How many times a day may you find yourself sneaking up the mouse cursor to grab a different CD-ROM and drive onto something or other? If you're a power user, you'll want to make some changes.



to purchase that bag, along outside items that made "The best and Biggest Windows 95 edition: 50% INSTALLED LINUX" (note: available at <http://www.felipe.com>) After extended exposure to Linux, Windows Extended Edition, and Linux.

it's hard to ignore entirely, especially if you offer job openings in April to be fair there are many Windows programs that contain any thing yet available for Lotus. When your job requires Microsoft Office (but a word count guide is optional), you need Office. However for Lotus Notes client, Win32 ClientBooks, or any number of applications you don't need a connection.

For most users, Linux/NetBSD seems like an option, it's a reasonably nice and powerful Linux most of the time, and has found many substitutes for Windows programs that not only work well but are free but there are still times when you may need an MS-DOS or Windows version.

The most common approach to this dilemma is the classic dual-boot Linux/Windows setup: run LILO or another boot manager (when you need Windows, you boot into Windows—otherwise you stay booted in Linux), or vice-versa. This is workable if you don't have to retask too often, but if you have a frequent need for both operating systems, it's usually because a mission-critical or heavy-duty

There are two fundamental approaches to managing multiple operating systems: Linux/Windows functionality on a single computer, or running them on separate machines. The approach you take depends on what resources you have available, and how much trouble you're willing to go through.

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VirtualBox (<http://www.virtualbox.org>) is an elegant package that allows Linux and Windows to run at the same time by creating virtual machines on one box. Those of you with long memories may remember virtual DOS systems that worked pretty well in those days.

Windows is a thin layer of software that sits between the local architecture and the operating system layer, retarding and managing all hardware resources. It provides access to I/O and CPU devices, CPU-to-I/O devices, and

several devices: All the operating systems mentioned have access to networking, dial-up, and file sharing. The most VMEbus product called VMEbus Workstations can host multiple versions of Linux, FreeBSD, and Windows (95, 98, NT, and 2000).

VMWare allows you to add operating systems without requiring them to be installed and you can play at will with operating systems at will. VMWare Workstation lets for \$149.99. There is a new addition to the VMware line, VMWare ESXpress, that lets for \$199.99. VMWare ESXpress allows Linux users to run Windows VMWare software (with full access to hardware devices, such as monitors, mouse, printer, etc.). It provides full networking access and the ability to Windows users under Linux.

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The slide show, place your cursor where you want to insert the slide (for example, to insert a new slide Number 6, place your cursor to the left of the heading for the current slide Number 6), choose **Edit**, **New Slide**, then from the New Slide dialog choose the layout for your new slide and click **OK**.

Using the Custom menu, give the new slide the title "Overview Item 7" and add the following three points on the left of the screen (pressing **Tab** before each point to the text does not format a new slide title):

And
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horizontal slide show against the PowerPoint screen and handlers clearing the screen.

To make it easier to find and run the show, create a icon for it as just PC desktop. To do this, right-click an empty space on your desktop and choose **New**, then **Shortcut**. Choose **Desktop** under **New file and folders**.

Now, enter the shortcut a name and choose **Finish**. Now you can run the presentation by clicking the icon. If you want to make your presentation on another computer at another location, use the **Package and Go Wizard** on computer.

Choose **File**, **Package and Go**, then step through the options this wizard offers. Pack

and Go compresses the files you need as well as the PowerPoint content—so even the computer you'll be using doesn't have PowerPoint (or has an older version) installed.

Although the DeckView is not a web browser and True Type fonts because it is unlikely all there will be on the other computer.

Later, when you reach your destination, put the first slide into the computer and run the file program on to install your presentation on the target computer.

You can also make your presentation on the Web, at which case choose **File**, then the **Save As Web Page** option. You'll need to have a Web site to upload your file into. When uploaded,

your presentation can be viewed by anyone anywhere—as long as they have an Internet connection and browser.

In fact, if you're presenting at another location, taking a Pack and Go version of your presentation and uploading a second version to the Web will ensure you have a backup.

You will find that PowerPoint is one of the most popular programs used to use and it can be put in a variety of several multi-media formats.

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Linux/Windows combinations

Continued from page 40

released a free resource page recent, Windows is a more solid-down product than the Mac OS X. Express, shows you to use Windows 95/98 products in Linux. Among the Windows products listed under its support page are Microsoft Office, Internet Explorer, Lotus SmartSuite, Adobe Photoshop, Intel® Turbo™, Microsoft Internet Explorer, Netscape, Netscape Navigator, and Windows.

Windows allows Windows programs to share hardware resources with Linux, including printers, network cards, modems, and sound systems. Windows has been designed to make recovery of Windows applications easy. There is a protection layer when jobs at it to prevent badly behaved Windows applications from crashing the entire system.

There is an evaluation download of Windows available at the Network and Windows site at US\$99.99 and a workstation available on sale for US\$99.

The grandchild of the "run Windows under Linux" products is WINE (Wine Is Not an Emulator). WINE is also the last stable. It is an open-source project that has been developing a Windows applications API layer that lets Windows applications run on underlying Linux code. It's a solid solution, often but the results are spotty. A few applications run well, but many only partially work and many others do not work at all. Still the project is open to all.

The more direct solution to products such as Windows and Windows is the increasing demand for compatibility.

For a few weeks ago and with nothing, the entire speed, you need a fast CPU and

plenty of memory (both Windows and Windows support 64-bit and can benefit from dual processors). If you have the processing power and need only they can depend on them.

A more serious concern is that you purchase a new computer for yourself or the family which has come with the latest and greatest version of Windows. The older machine you converted into a Linux box. Now you have two computer systems and more money with your and business - not to mention how to run systems, keyboards, etc. Above all, it's often necessary to move from one computer to the other when they're not by side.

If the Linux box is mostly used as a server, and you don't need Windows on that, it's not a very serious, there's easy to run the Linux box (without Windows), look every thing up to your future network, and move it later on to Linux from your Windows workstation to elaborate the system.

There's a way to run across a part of the system and most stable way of recently using a Linux or Linux system. Commercial-line setups work very well on IBM and still work but instead by Windows, making it possible for you to merge old computers that could otherwise be donated for landfill.

But if your Linux box is a Pentium class or higher unit, you could be enjoying the X Windows environment. Fortunately, there are ways to move both your Linux and Windows computer from a single physical device, allowing you to do all your work in one place.

The thing that makes X Windows so versatile is that, unlike Microsoft Windows, it is a client-server architecture. Simply stated, you can run Linux programs on one machine,

Continued on page 33

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and control and view the results on another.

The problem is that X is not native to Microsoft operating systems, so you must obtain a X Windows package for that environment if you want to work in a scenario where you do all your work from your Windows workstation. Two of the most popular commercial high-end X Windows packages for Windows are Redstone X and WinHammered Xactix. Both are very solid but neither is cheap. With one of these products installed, you can interact in your Linux box, see the display for remote, and launch programs that appear on your Windows computer.

Get a very local network network is based on 10/100, 10/100 and your Windows machine is 10/100. To learn to X program your Windows desktop from Linux (assuming you have Redstone X or Xactix running) your local network will look something like this:

Linux 10/100 10/100 10/100 10/100
10/100 10/100 10/100 10/100

Well, Linux will definitely appear on your Windows box under full screen and key board control of Windows. Linux products work very well but they are not what you are looking for. Microsoft, Netscape, and even on the box products like the GNOME don't work as well as on a network in Windows.

There are some low-end X Windows packages available for Windows but in terms of features and reliability, they lag behind the industry leaders.

VNC

One of the hidden treasures of the open source world is a product from AT&T Labs U.K. called VNC (Virtual Network Computing) is a really fine solution to computer sharing

that is almost invisible as a product can get. You can set up a connection between Linux and Windows, Linux and Macintosh, Windows and Windows, Windows and Macintosh, or any combination of these.

VNC is something of a cross between X Windows remote access and PCAnywhere. There is a client (viewer) version available for Linux, Windows and Macintosh, and server versions available for Linux and Windows.

If you're still using a Windows user who dips into Linux from time to time, you can set up the server on Linux and the client on Windows and view X sessions on your Windows desktop. Generally, if you prefer working on Linux on GNOME, KDE, or your favorite X Window manager and only need limited access to Windows programs, you can get the server on Windows and use the Linux version to run Windows programs on X.

There are now Java companions for VNC that allow you to run a remote as if it were as if it were.

VNC offers a free trial advantage over X Windows packages on Windows. For the most part a VNC client will pick it up later right when you're out of it. If you want more than one computer on your network, you can share a server on one computer and pick it up on another. I've found it kind of the product that I run a VNC server on every system in the house.

Of course, as they say on the Internet, VNC (your mileage may vary). One of the downsides of remote viewing is that you experience some lag in display and input response. But if you have a distributed network on your floor and don't want to get Windows and Linux on the same machine, take a trip to <http://www.atl-labs.com/vnc/> and try out the impressive version of VNC. It



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